

## User Guide

**INSIGNIA™**

42"/50" 720p Plasma TV  
**NS-42P650A11/NS-50P650A11**



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# CHILD SAFETY

**It makes a difference how and where you use  
your flat panel display**

**As you enjoy your new product, keep these  
safety tips in mind**

## **The issue**

The home theater entertainment experience is a growing trend, and larger TVs are popular purchases. However, TVs are not always supported on the proper stands or installed according to the manufacturer's recommendations. We and the consumer electronics industry are committed to making home entertainment enjoyable and safe.

TVs that are inappropriately placed on dressers, bookcases, shelves, desks, speakers, chests, or carts may fall over and cause injury.

## **Tune into safety**

- One size of TV stand does **not** fit all. Use only a TV stand rated for the weight of your TV.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't let children climb on or play with entertainment system furniture and TVs.
- Don't place TVs on furniture that can easily be used as steps, such as a crate or chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger-than-life" TV. Make sure that you place or install the TV where it cannot be pushed, pulled over, or knocked down.
- Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.



## **Wall mounting**

If you decide to wall mount your TV, always remember:

- One size of wall mount does **not** fit all. Use only a wall mount rated for the weight of your TV and that has been recommended by this TV manufacturer, listed in this manual, or otherwise listed by an independent laboratory as suitable for your TV.
- Follow all instructions supplied by the TV and wall mount manufacturers.
- If you have any doubts about your ability to safely wall mount your TV, get help from a professional installer.
- Make sure that the wall where you are mounting the TV is appropriate. Some wall mounts are not designed to be mounted to walls backed with steel studs or cinder blocks. If you are unsure, ask a professional installer.
- TVs can be heavy. At least two people are required for safe wall mount installation.

# Important safety instructions



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your TV. This label is located on the back of your TV.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your TV.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.  S3125A
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- 15 The *wall plug* is the disconnecting device. The plug must remain readily operable.
- 16 An apparatus with three-prong, grounding-type plug is a Class I apparatus which needs to be grounded to prevent possible electric shock. Make sure that you connect the Class I apparatus to a grounding-type, three-prong outlet.
- 17 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.
- 18 The apparatus should not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, should be placed on the apparatus.

## Warnings

### Electric shock hazard

To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.

### Lightning

For added protection for your device receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect any antenna or cable system. This helps prevent property damage and personal injury from lightning and power line surges.

### Power lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

### Handling the TV screen

Your TV's screen is made of glass. Do not drop your TV or hit, jolt, or press hard against the panel. If the screen breaks, be careful of broken glass.

### Replacement parts

When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

### Safety check

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

### Power source

Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.

## Cautions

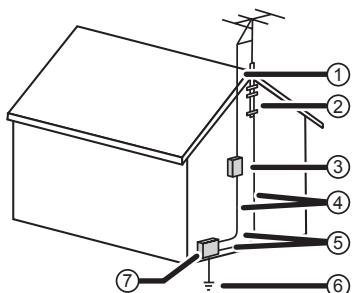
### Damage requiring service

Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into your TV.
- If your TV has been exposed to rain or water.
- If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
- If your TV has been dropped or damaged in any way.
- When your TV exhibits a distinct change in performance.

### Outdoor antenna grounding

If an outside antenna or cable system is connected to your TV, make sure that the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to correct grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- ① Antenna lead-in wire
- ② Grounding clamp
- ③ Antenna discharge unit
- ④ Grounding conductors
- ⑤ Ground clamps
- ⑥ Power service grounding electrode system
- ⑦ Electric service equipment

### Note to CATV system installer

Article 820 of the National Electrical Code, ANSI/NFPA No. 40 provides guidance for correct grounding. Specifically, it states that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

### Condensation

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

### Mobile telephone warning

To avoid interference with your TV picture and sound, operating problems, or even damage, keep your cordless and cellular telephones away from the TV.

### End of life directives

Disposal of the materials in your TV may be regulated for environmental reasons. Your TV also contains material that can be recycled and reused. For disposal or recycling information, contact your local authorities.

### Non-active pixels

The TV screen contains almost 3 million thin-film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.

### Altitude

The plasma display panel can only operate normally at heights under 6,500 feet.

### Heat on the top of the plasma TV

The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

# Introduction

Congratulations on your purchase of a high-quality Insignia product. Your NS-42P650A11 or NS-50P650A11 represents the state of the art in plasma TV design and is designed for reliable and trouble-free performance.

## Installing the stand or wall-mount bracket

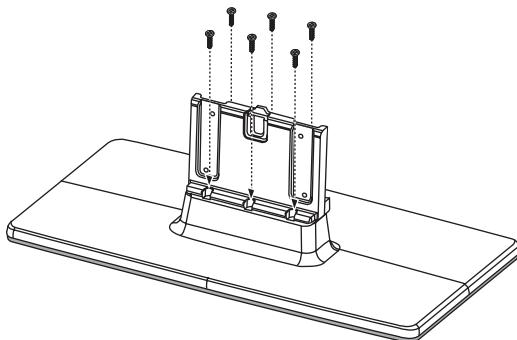
### Installing the stand

#### To install the stand:

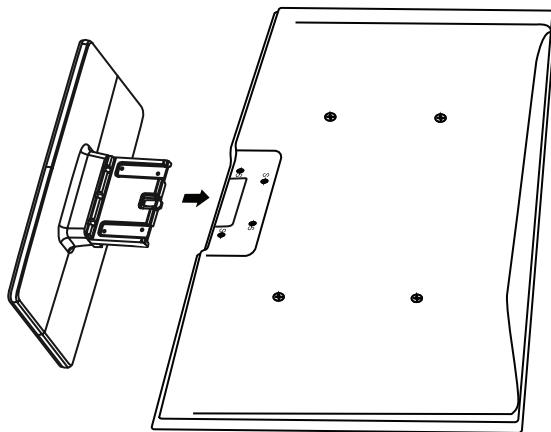
##### Warnings

- Your TV screen is heavy. You should use two people to lift the screen and hold it in place.
- Make sure that you install the base securely before moving it. The stand could fall and cause serious injury.
- Always store your TV upright.

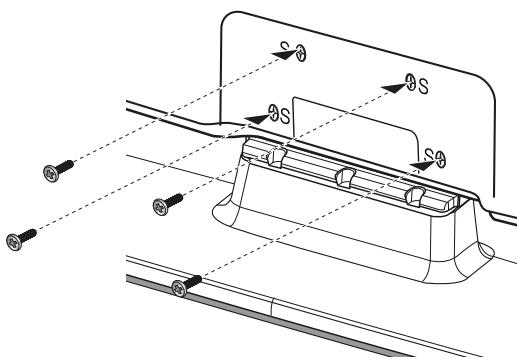
- 1 (NS-50P650A11 only) Connect the guide stand into the stand, then secure the guide stand to the base with the six included M4 x L12 screws.



- 2 Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches, then slide the stand into the TV.



- 3 Secure the TV to the stand with the four included M4 x L12 screws (50-inch model) or M4 x L16 screws (42-inch model).



### Securing your TV to a wall or cabinet

You can secure your TV to a wall or cabinet with an anti-fall device (sold separately). To purchase an anti-fall device in the U.S., call 1-877-467-4289.

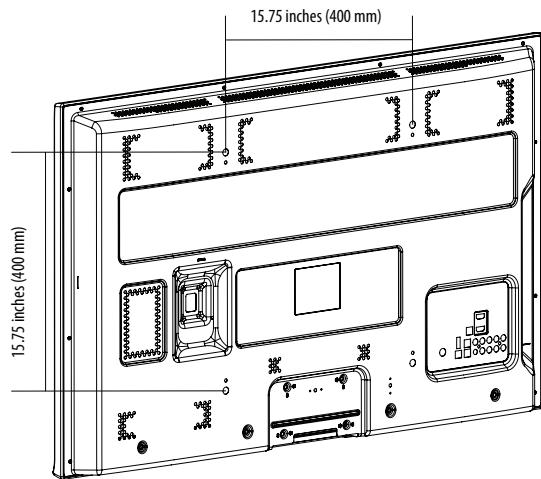
##### Warnings

- Pushing, pulling, or climbing on your TV can cause it to fall resulting in serious injury or damage to your TV.
- For added stability, secure your TV to the wall with an anti-fall device.
- If you do not think you can install an anti-fall device, contact a professional installer.

## Installing a wall-mount bracket

### Warning

This apparatus is intended to be supported by a UL Listed wall-mount bracket.

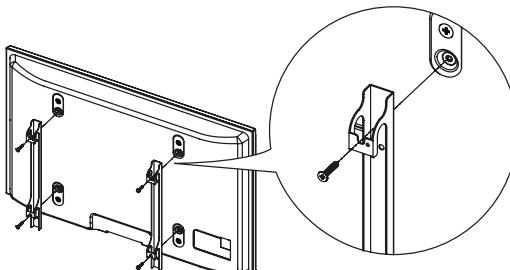


### To install a wall-mount bracket:

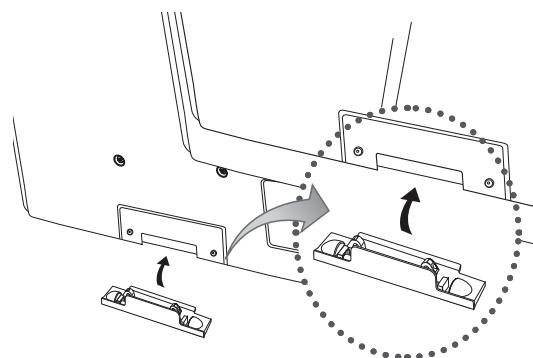
### Warning

These servicing instructions are for use by qualified service personnel only. To reduce the risk of hazards, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

- 1 If the stand is installed, remove the stand.
- 2 Attach the wall-mount bracket to the back of your TV using four M8 screws (not included).



### 3 Install the base cover.



### Warning

- Do not use screws longer than the standard dimension, because they may cause damage to the inside of your TV.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the required screws may differ. Do not use screws that do not comply with the VESA standard screw specifications.
- Do not exceed a 15° tilt when mounting your TV.

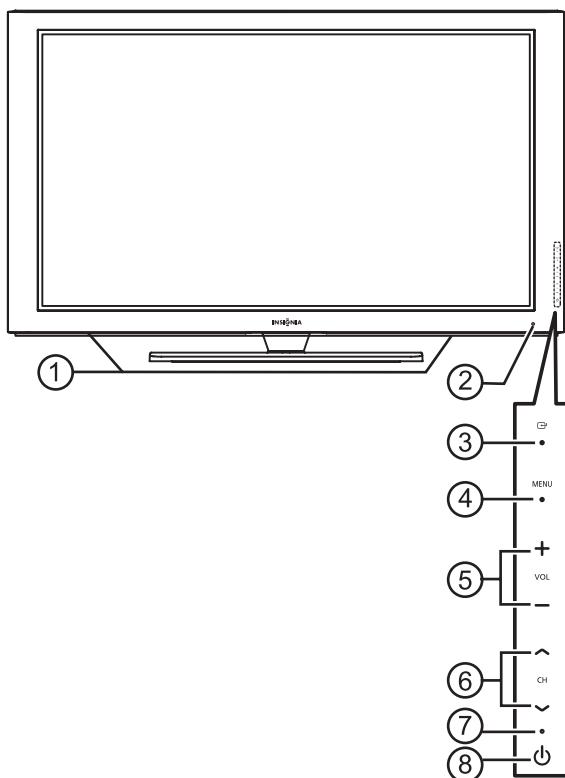
# TV components

## Accessories

Make sure that the following accessories are provided in the packaging:

Accessories	
Remote control with two AAA batteries	
Power cord	
Ferrite core	
Base cover	
NS-50P650A11: M4 × L12 (10) NS-42P650A11: M4 × L16 (4) Note: The bag attached to the stand guide contains the screws you need to attach the stand guide.	
Cleaning cloth	
Important Information Document and Quick Setup Guide	

## Front

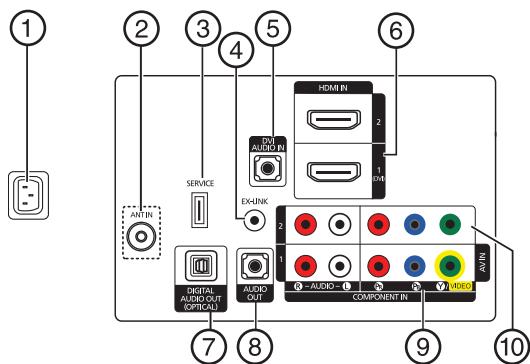


#	Item	Description
①	Speakers	Outputs the sound from your TV.
②	Remote control sensor	Receives signals from the remote control. Do not block.
③	INPUT $\square$ button	Press to select the video input source. For more information, see "Selecting the video input source" on page 21. In on-screen menus, this button functions like the ENTER button on the remote control.
④	MENU button	Press to open the on-screen menu.
⑤	VOL+/VOL- buttons	Press to increase or decrease the volume.
⑥	CH $\wedge$ /CH $\vee$ buttons	Press to tune to the next or previous channel in the channel list. For more information, see "Selecting a channel" on page 23.
⑦	Power indicator	Blinks, then turns off when you turn on your TV. Lights red when your TV is off.
⑧	$\odot$ (power)	Press to turn your TV on or off (standby mode). When you turn off your TV, power still flows into it. To disconnect power, turn off the surge protector (if you are using one) or unplug the power cord.

## Cleaning cloth

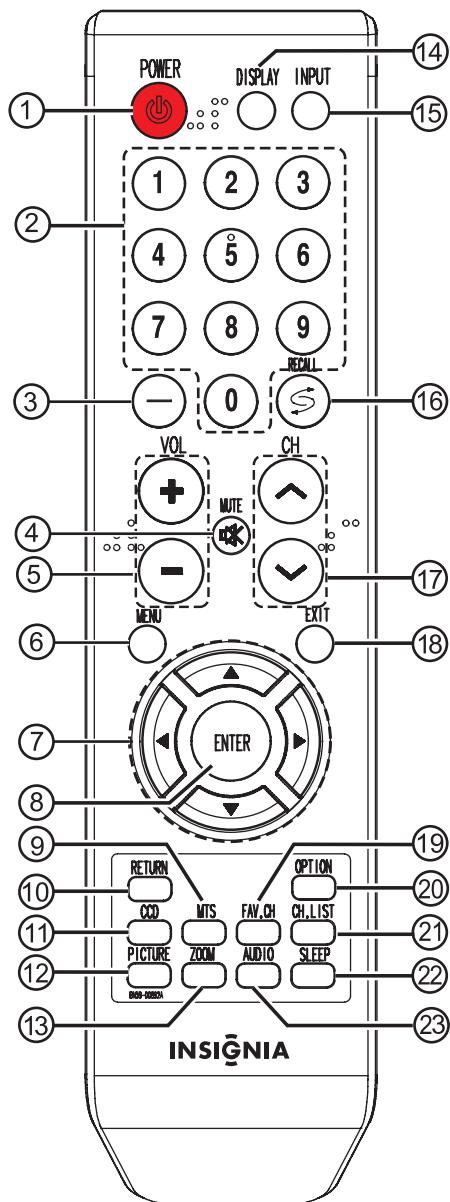
The cleaning cloth is for cleaning the TV screen only. Do not use the cleaning cloth to clean any other part of your TV.

## Back



#	Jack	Description
①	Power in	Connect the power cord to this jack.
②	ANT IN	Connect the cable for an outdoor antenna or cable TV to this jack. For more information, see "Connect antenna or cable TV (no box)" on page 14 or "Connect a cable or satellite box" on page 11.
③	SERVICE	Used for service only.
④	EX-LINK	Used for service only.
⑤	DVI AUDIO IN	Connect the audio for a DVI device to this jack. For more information, see "Using DVI (same as HDMI but requires a audio connection)" on page 12, page 15, and page 17.
⑥	HDMI IN 1 (DVI)/HDMI IN 2	Connect an HDMI device to either HDMI jack. For more information, see "Using HDMI (best)" on page 11 and page 14. Connect a DVI device to the HDMI IN 1 jack. For more information, see "Using DVI (same as HDMI but requires a audio connection)" on page 12, page 15, and page 17.
⑦	DIGITAL AUDIO OUT (OPTICAL)	Connect a digital audio amplifier to this jack. For more information, see "Using digital audio output" on page 18.
⑧	AUDIO OUT	Connect an analog audio amplifier to this jack. For more information, see "Using analog audio output" on page 18.
⑨	COMPONENT IN 1 PR, PB, Y and R-AUDIO-L AV1 IN VIDEO and R-AUDIO-L	Connect a component video device to these jacks, or connect an analog video device to the <b>Y/VIDEO</b> jack and the audio jacks. For more information, see "Using component video (better)" on page 12 and 15 or "Using composite video (good)" on page 13 and 16, "Connecting a VCR" on page 16, and "Connecting a camcorder or game console" on page 17.
⑩	COMPONENT IN 2 PR, PB, Y and AUDIO L/R	Connect a component video device to these jacks. For more information, see "Using component video (better)" on page 12 and 15.

## Remote control



#	Button	Description
⑩	RETURN	In the on-screen menu, press to return to the previous menu.
⑪	CCD	Press to turn closed captioning on or off. Not available in component video or HDMI mode.
⑫	PICTURE	Press to select the picture mode. For more information, see "Adjusting the TV picture" on page 24.
⑬	ZOOM	Press to select the picture size (aspect ratio). For more information, see "Adjusting the TV picture" on page 24.
⑭	DISPLAY	Press to display information. For more information, see "Displaying additional information" on page 23.
⑮	INPUT	Press to select the video input source. For more information, see "Selecting the video input source" on page 21.
⑯	RECALL S	Press to tune to the previously viewed channel.
⑰	CH ▲ / CH ▼	Press to tune to the next or previous channel in the channel list. For more information, see "Selecting a channel" on page 23.
⑱	EXIT	Press to close the on-screen menu.
⑲	FAV.CH	Press to select a favorite channel. For more information, see "Viewing a favorite channel" on page 33.
⑳	OPTION	Press to display the channel list sub-menu.
㉑	CH.LIST	Press to open the channel list. For more information, see "Automatically searching for channels" on page 29.
㉒	SLEEP	Press to set the sleep timer. For more information, see "Setting a wake-up timer" on page 43.
㉓	AUDIO	Press to select the sound mode. For more information, see "Adjusting the sound" on page 28.

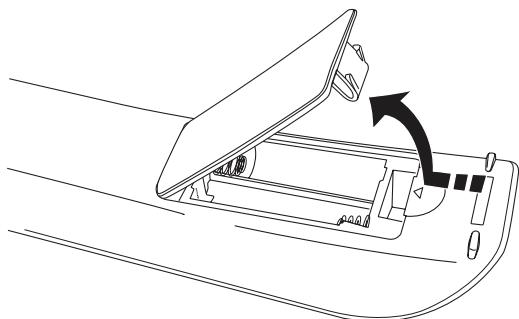
#	Button	Description
①	POWER ⏻	Press to turn your TV on or off (standby mode). When you turn off your TV, power still flows into it. To disconnect power, turn off the surge protector (if you are using one) or unplug the power cord.
②	Numbers	Press to change the channel. For more information, see "Selecting a channel" on page 23.
③	—	Press to select a sub-channel. For more information, see "Selecting a channel" on page 23.
④	MUTE ❀	Press to turn off the sound. Press again to turn the sound back on.
⑤	VOL+/VOL-	Press to increase or decrease the volume.
⑥	MENU	Press to open the on-screen menu.
⑦	▲ ▼ ▲ ▼	In the on-screen menu, press to select menu items or adjust settings.
⑧	ENTER	In the on-screen menu, press to confirm selections or changes.
⑨	MTS	Press to select the audio mode. You can select <b>Stereo</b> , <b>Mono</b> , or <b>SAP</b> (secondary audio programming).

# Using the remote control

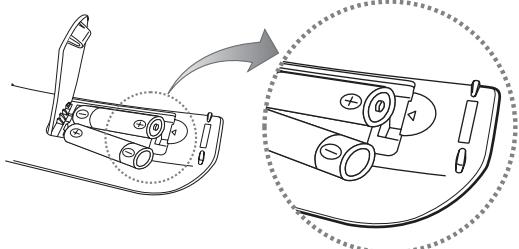
## Installing remote control batteries

### To install remote control batteries:

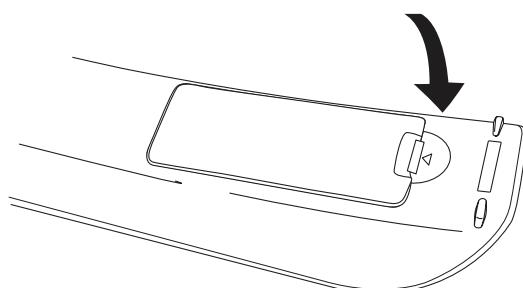
- 1 Press the battery cover latch in, then lift the cover.



- 2 Insert two AAA batteries into the battery compartment. Make sure that you match the + and – symbols on the batteries with the + and – symbols in the battery compartment.



- 3 Press down on the battery cover until it clicks into place.



### Cautions

- Batteries should not be exposed to excessive heat, such as sunshine, heat registers, or fire.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.
- Make sure that batteries are disposed of correctly. Do not burn or incinerate.

### Notes

- Do not mix batteries of different types.
- Do not mix old and new batteries.
- Remove batteries when the charge is depleted.
- If the remote control is not going to be used for an extended period of time, remove the batteries.

## Aiming the remote control

### To aim the remote control:

- Point the remote control towards the remote sensor on the front of your TV.

### Notes

- Do not expose the remote control to shock or liquids.
- Do not use the remote control in an area with high humidity.
- Do not place the remote control in direct sunlight. The remote control may not work if direct sunlight or bright light shines on the remote sensor. Either move your TV or change the angle at which you use the remote control.
- Do not place objects, such as furniture, between the remote control and the remote sensor.

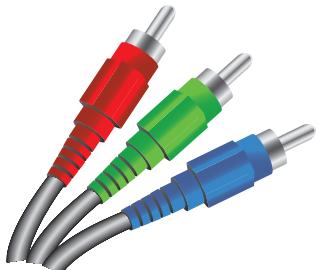
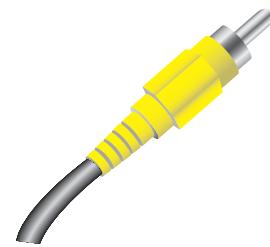
# Making connections

## What connection should I use?

Your TV has several connection types for connecting devices to your TV.

For the best video quality, you should connect a device to the best available connection.

Use the following tables to identify cables:

Connection type and jack	Video quality	Cable connector
HDMI video/audio	Best (use this if your devices have HDMI)	
Component video (requires an audio connection)	Better than composite or coaxial	
Composite video (requires an audio connection)	Better than coaxial	
Coaxial video/audio	Good	

## Connection type and jack

## Cable connectors

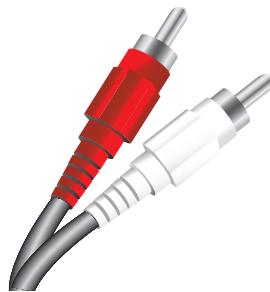
### Digital audio out



### Audio out



### Analog audio



You can use the **HDMI 1 (DVI)** jack on the back of your TV to connect a DVI device to your TV. You need to attach an HDMI-to-DVI adapter to the end of the HDMI cable that connects to the DVI device.

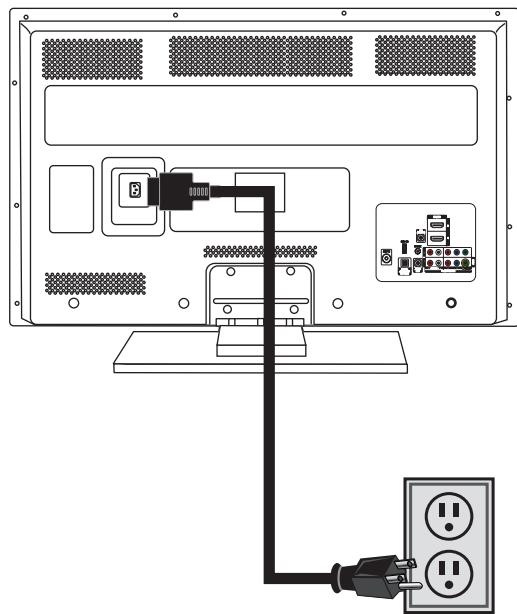
### Cautions

- Check the jacks for position and type before making any connections.
- Loose connections can result in image or color problems. Make sure that all connections are tight and secure.
- The external audio/video equipment shown may be different from your equipment. If you have questions, refer to the documentation that came with your equipment.
- Always unplug the power cord when connecting external equipment.

## Connecting the power

### To connect the power:

- Connect the AC power cord to the power connector on the back of your TV, then plug the other end into a power outlet.



#### Notes

- Your TV should only be operated from the power source indicated on the label.
- Always unplug the AC power cord from the power outlet when you will not be using your TV for an extended period of time.

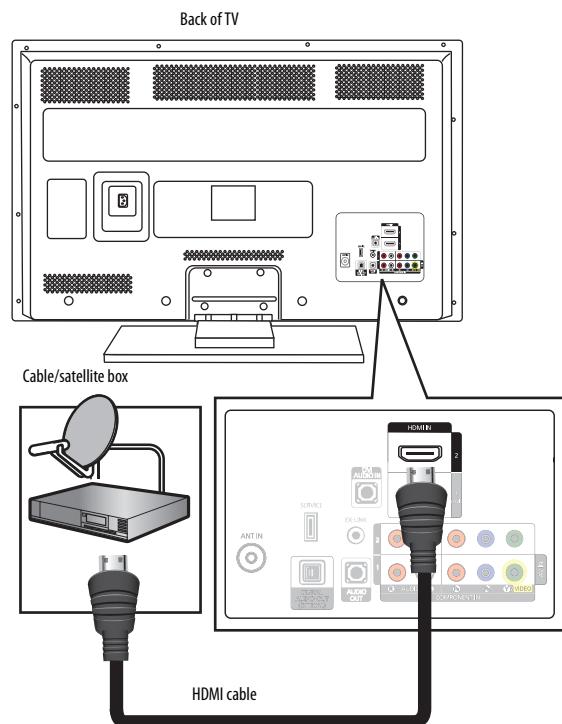
## Connect a cable or satellite box

Many cable or satellite TV boxes have more than one connection type. To get the best video, you should use the best connection type available. For more information, see "What connection should I use?" on page 10.

### Using HDMI (best)

#### To connect a cable or satellite box using HDMI:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an HDMI cable (not included) to one of the **HDMI** jacks on the back of your TV and to the HDMI jack on the cable or satellite box.



- 4 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Go through the setup wizard on page 19.

#### Note

An HDMI cable carries both audio and video. You do not need to use any audio cables.

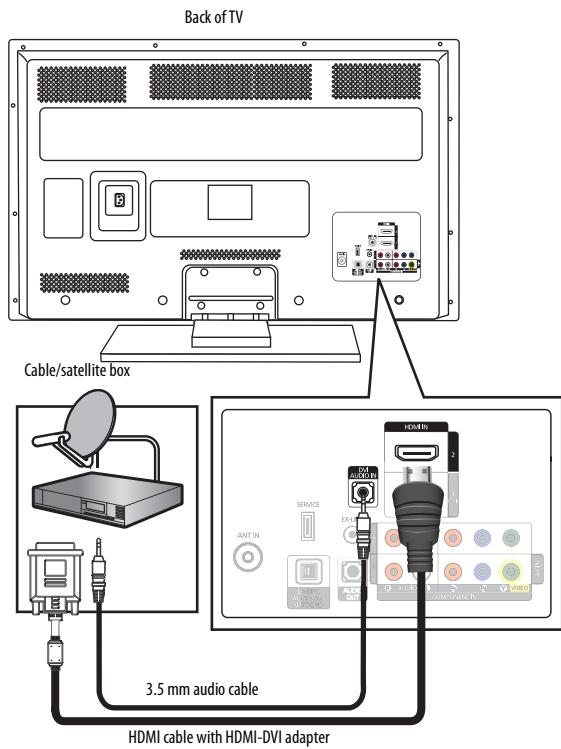
## Using DVI (same as HDMI but requires a audio connection)

### Note

A DVI device must be connected to the **HDMI 1 (DVI)** jack. If you connect a DVI device to the **HDMI 2** jack, you will not hear audio.

### To connect a cable or satellite box using DVI:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable box.
- 3 Connect an HDMI-DVI adapter (not included) to one end of an HDMI cable (not included).
- 4 Connect the HDMI-DVI adapter to the **DVI OUT** jack on the cable or satellite box, then connect the other end of the cable to the **HDMI 1 (DVI)** jack on the back of your TV.



- 5 Connect a 3.5 mm audio cable (not included) to the **DVI AUDIO IN** jack on the back of your TV and to the **AUDIO OUT** jack on the cable or satellite box.

### Note

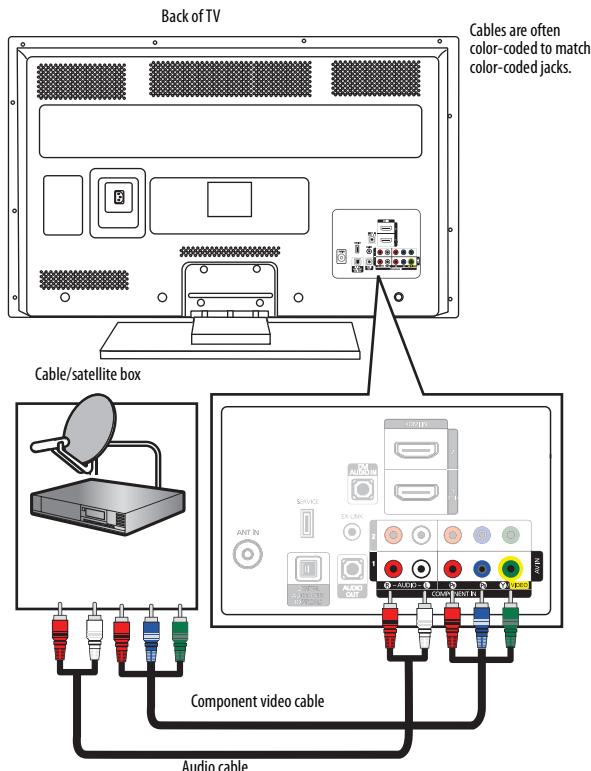
When you connect the audio using the **DVI AUDIO IN** jack, the audio output is analog.

- 6 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 7 Go through the setup wizard on page 19.

## Using component video (better)

### To connect a cable or satellite box using component video:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable box.
- 3 Connect a component video cable (not included) to the **COMPONENT IN 1** or **COMPONENT IN 2** **Y/VIDEO**, **Pb**, and **Pr** jacks on the back of your TV and the component video out jacks on the cable or satellite box.



- 4 Connect an audio cable (not included) to the **L** and **R AUDIO** jacks on the back of your TV and to the audio out jacks on the cable or satellite TV box.

### Note

When you connect the audio using the **L** and **R AUDIO** jacks, the audio output is analog.

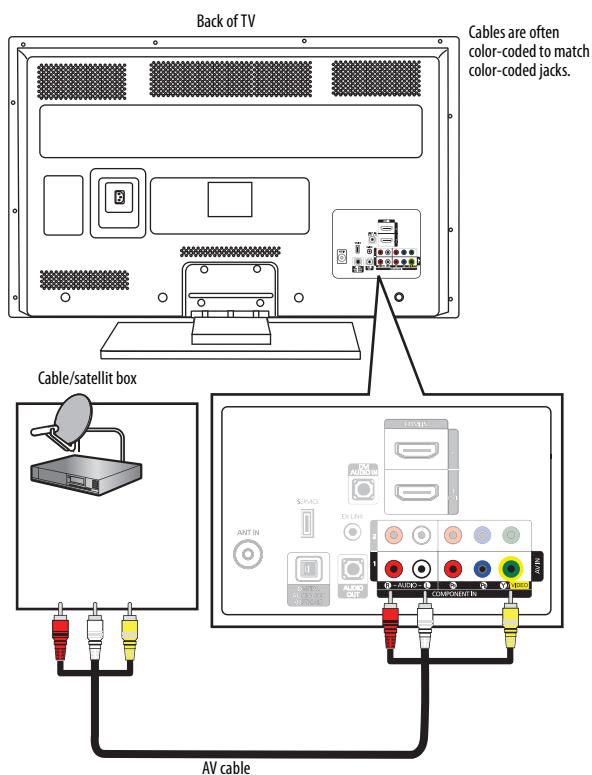
You can connect the video to the **COMPONENT IN 1** or **COMPONENT IN 2** video jacks and connect the audio to the **DIGITAL AUDIO OUT** jack to get digital audio output.

- 5 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 6 Go through the setup wizard on page 19.

## Using composite video (good)

### To connect a cable or satellite box using composite video:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable box.
- 3 Connect an A/V cable (not included) to the **COMPONENT IN 1 Y/VIDEO** and **L and R AUDIO** jacks on the back of your TV and to the composite video and audio out jacks on the cable or satellite box.



- 4 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Go through the setup wizard on page 19.

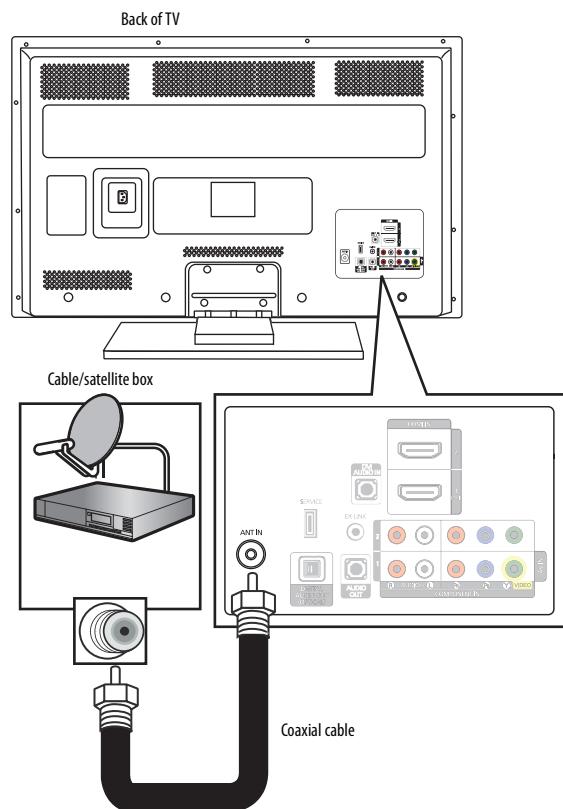
#### Note

When you connect the audio using the **L and R AUDIO** jacks, the audio output is analog. You can connect the video to the **COMPONENT IN 1 Y/VIDEO** jack and connect the audio to the **DIGITAL AUDIO OUT** jack to get digital audio output.

## Using coaxial (good)

### To connect a cable or satellite box using coaxial:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect a coaxial cable (not included) to the **ANT IN** jack on the back of your TV and to the coaxial out jack on the cable or satellite box.



- 4 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Go through the setup wizard on page 19.

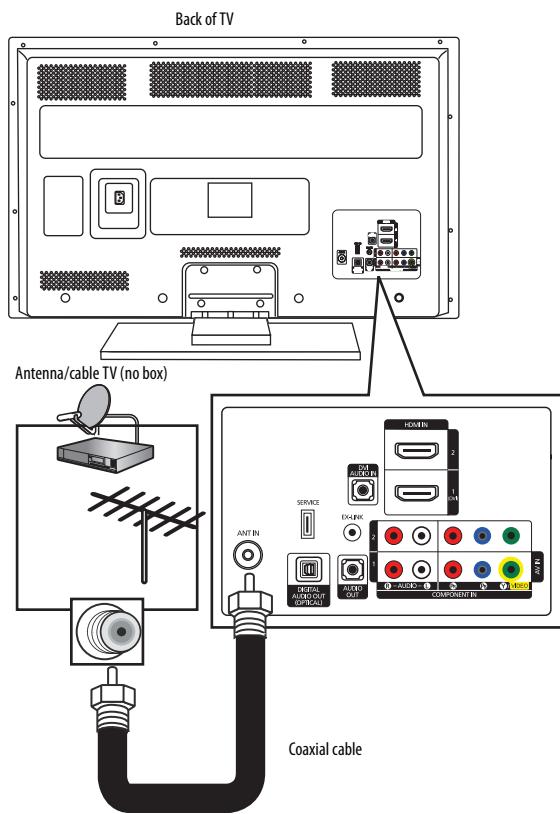
#### Notes

- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the power cord or other cables.

## Connect antenna or cable TV (no box)

### To connect an antenna or cable TV (no box):

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect a coaxial cable to the **ANT IN** jack on the back of your TV and to the antenna or cable TV wall jack.



- 3 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 4 Go through the setup wizard on page 19.

#### Notes

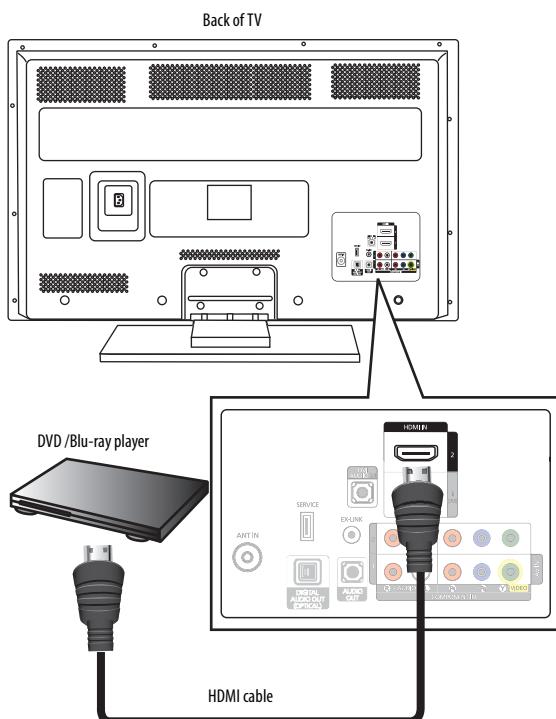
- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the power cord or other cables.
- If the antenna is not installed correctly, contact qualified service personnel to correct the problem.

## Connecting a DVD or Blu-ray player

### Using HDMI (best)

#### To connect a DVD or Blu-ray player using HDMI:

- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an HDMI cable (not included) to an **HDMI** jack on the back of your TV and to the **HDMI OUT** jack on the DVD or Blu-ray player.



- 3 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the DVD or Blu-ray player.
- 4 Press **INPUT** one or more times to select **HDMI1** or **HDMI2**.

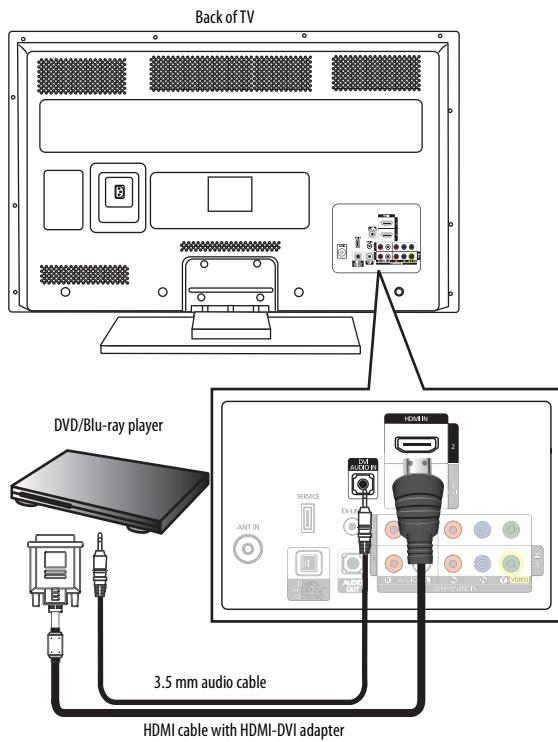
## Using DVI (same as HDMI but requires a audio connection)

### Note

A DVI device must be connected to the **HDMI 1/DVI** jack. If you connect a DVI device to another **HDMI** jack, you will not hear audio.

### To connect a DVD or Blu-ray player using DVI:

- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an HDMI-DVI adapter (not included) to one end of an HDMI cable (not included).
- 3 Connect the HDMI-DVI adapter to the **DVI OUT** jack on the DVD or Blu-ray player, then connect the other end of the cable to the **HDMI 1 (DVI)** jack on the back of your TV.



- 4 Connect a 3.5 mm audio cable (not included) to the **DVI AUDIO IN** jack on the back of your TV and to the **AUDIO OUT** jack on the DVD or Blu-ray player.

### Note

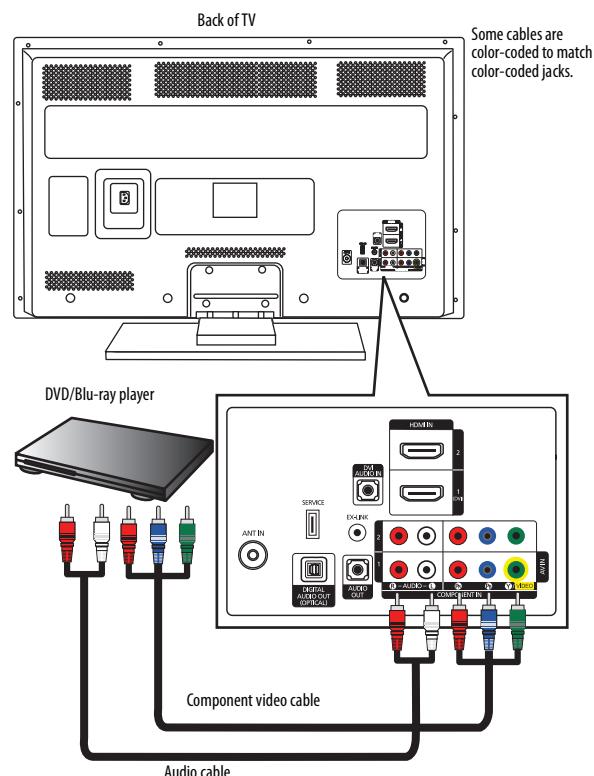
When you connect the audio using the **DVI AUDIO IN** jacks, the audio output is analog.

- 5 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the DVD or Blu-ray player.
- 6 Press **INPUT** one or more times to select **HDMI1/DVI**.

## Using component video (better)

### To connect a DVD or Blu-ray player using component video:

- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect a component video cable (not included) to the **COMPONENT IN 1** or **COMPONENT IN 2 Y/PB/PR** jacks on the back of your TV and to the **COMPONENT OUT** jacks on the component video device.



- 3 Connect an audio cable to the **L/R AUDIO** jacks on the back of your TV and to the **L/R AUDIO OUT** jacks on the component video device.

### Notes

When you connect the audio using the **L** and **R AUDIO** jacks, the audio output is analog.

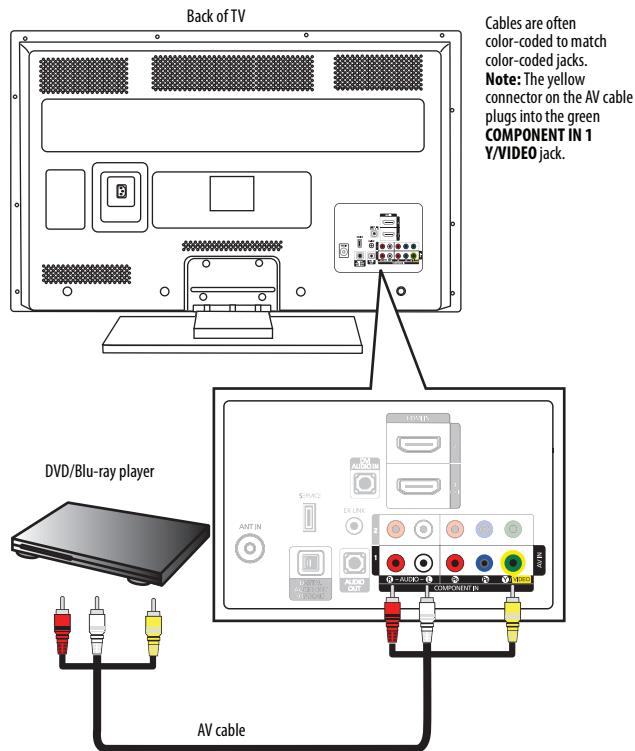
You can connect the video to the **COMPONENT IN 1** or **COMPONENT IN 2** video jacks and connect the audio to the **DIGITAL AUDIO OUT** jack to get digital audio output.

- 4 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the DVD or Blu-ray player.
- 5 Press **INPUT** one or more times to select **Component1** or **Component2**.

## Using composite video (good)

### To connect a DVD or Blu-ray player using composite video:

- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an AV cable (not provided) to the **COMPONENT IN 1 Y/VIDEO** and **L and R AUDIO** jacks on the back of your TV and to the **AV OUT** jacks on the DVD or Blu-ray player.



#### Note

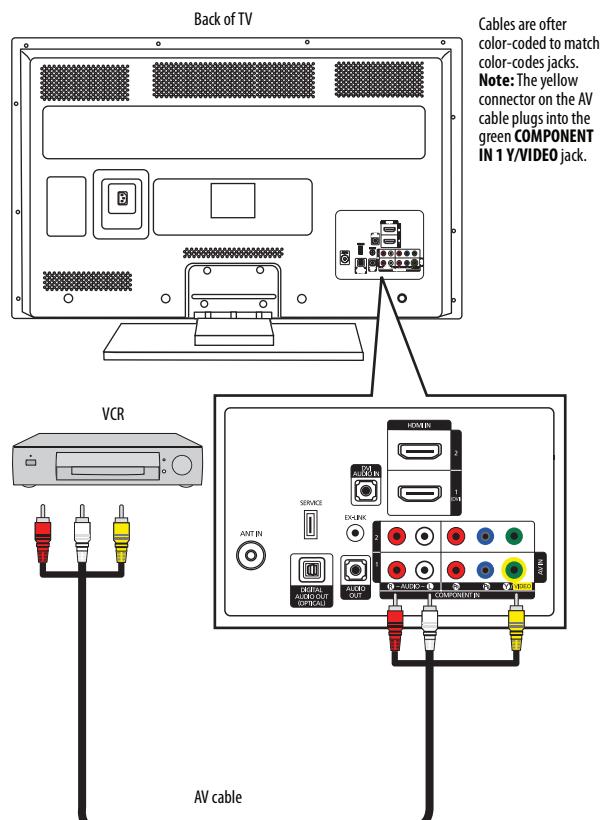
When you connect the audio using the **L and R AUDIO** jacks, the audio output is analog.  
You can connect the video to the **COMPONENT IN 1 Y/VIDEO** jack and connect the audio to the **DIGITAL AUDIO OUT** jack to get digital audio output.

- 3 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the DVD or Blu-ray player.
- 4 Press **INPUT** one or more times to select **AV**.

## Connecting a VCR

### To connect a VCR:

- 1 Make sure that your TV's power cord is unplugged and the VCR is turned off.
- 2 Connect an AV cable (not provided) to the **COMPONENT IN 1 Y/VIDEO** and **L and R AUDIO** jacks on the back of your TV and to the **AV OUT** jacks on the VCR.



#### Note

When you connect the audio using the **L and R AUDIO** jacks, the audio output is analog.  
You can connect the video to the **COMPONENT IN 1 Y/VIDEO** video jack and connect the audio to the **DIGITAL AUDIO OUT** jack to get digital audio output.

- 3 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the VCR.
- 4 Press **INPUT** one or more times to select **AV**.
- 5 Insert a videotape, then press **PLAY** on the VCR.

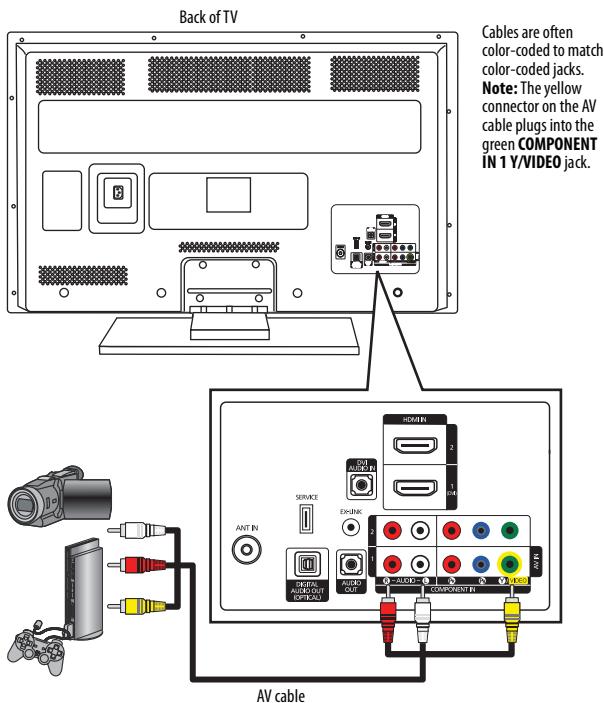
## Connecting a camcorder or game console

### Note

If the camcorder or game console has an HDMI jack, you can connect it to the **HDMI IN 1/DVI** or **HDMI IN 2** jack on the back of your TV. For more information, see "Using HDMI (best)" on page 14.

### To connect a camcorder or game console:

- 1 Make sure that your TV's power cord is unplugged and the camcorder or game console is turned off.
- 2 Connect an AV cable (not provided) to the **COMPONENT IN 1 Y/VIDEO** and **L** and **R** **AUDIO** jacks on the back of your TV and to the **AV OUT** jacks on the camcorder or game console.



### Note

When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.

- 3 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the camcorder or game console.
- 4 Press **INPUT** one or more times to select **AV**.

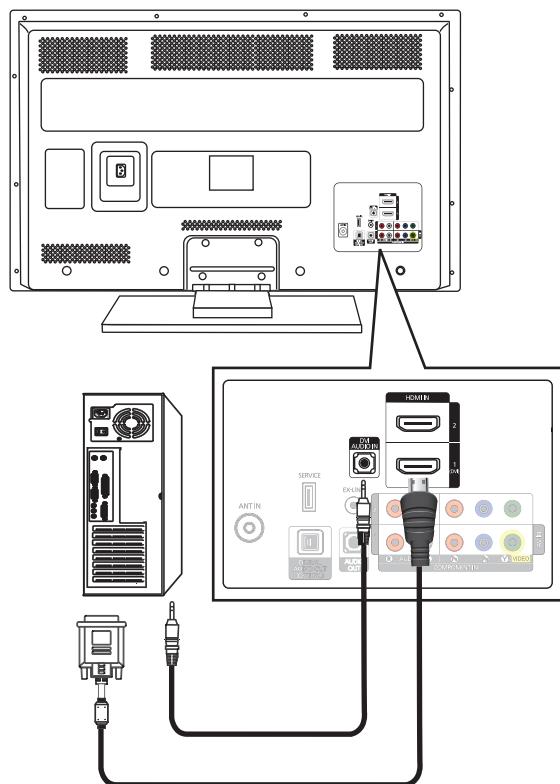
## Connecting a computer using DVI

### Note

If the computer has an HDMI jack, you can connect it to the **HDMI IN 1/DVI** or **HDMI IN 2** jack on the back of your TV. For more information, see "Using HDMI (best)" on page 14.

### To connect a computer:

- 1 Make sure that your TV's power cord is unplugged and the computer is turned off.
- 2 Connect an HDMI-DVI adapter (not included) to one end of an HDMI cable (not included).
- 3 Connect the HDMI-DVI adapter to the **DVI OUT** jack on the computer, then connect the other end of the cable to the **HDMI 1 (DVI)** jack on the back of your TV.



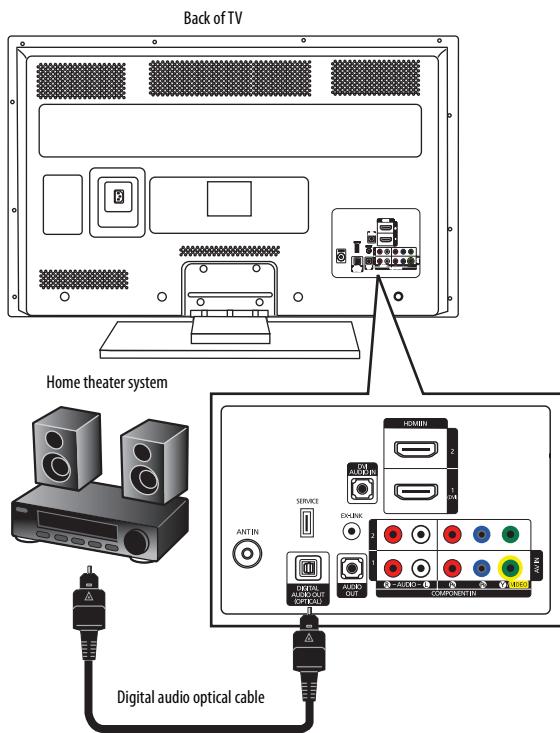
- 4 Connect a PC audio cable (not included) to the **DVI AUDIO IN** jacks on the back of your TV and the **LINE IN** jack on the computer.
- 5 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the computer.
- 6 Press **INPUT** one or more times to select **HDMI1/DVI**.

## Connecting a basic home theater system

### Using digital audio output

#### To connect a basic home theater system using digital audio output:

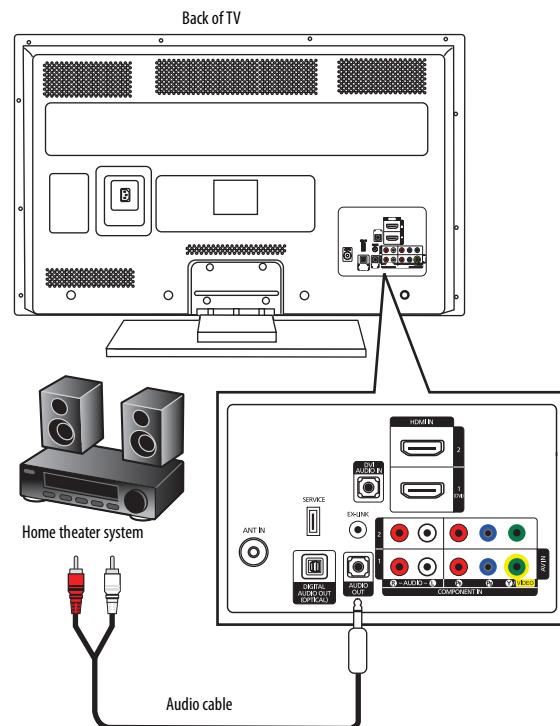
- 1 Make sure that your TV's power cord is unplugged and the home theater system is turned off.
- 2 Connect a digital optical audio cable to the **DIGITAL AUDIO OUT** jack on the back of your TV and to the digital optical audio jack on the digital home theater system.



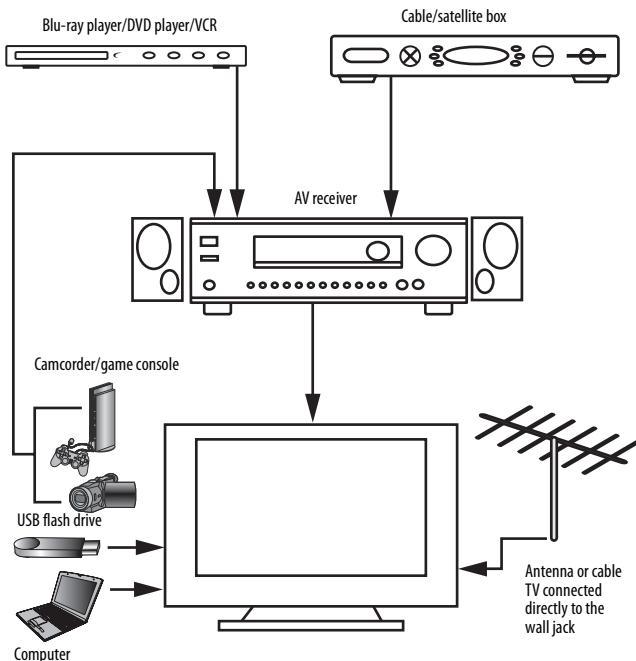
### Using analog audio output

#### To connect a basic home theater system using analog audio output:

- 1 Make sure that your TV's power cord is unplugged and the home system is turned off.
- 2 Connect an audio cable to the **AUDIO OUT** jack on the back of your TV and to the **AUDIO IN** jacks on the home theater system.



## Connecting a home theater with multiple devices

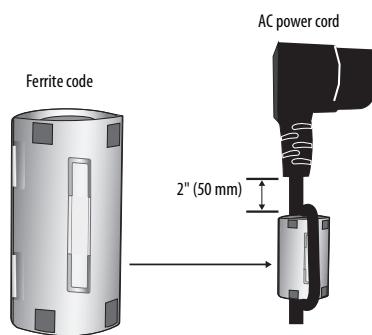
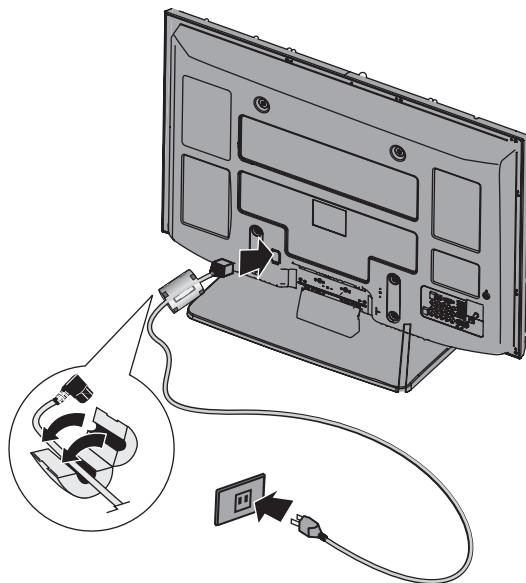


## Installing the ferrite core (optional)

The ferrite core shields cables from interference. You can use the core with any cable (except a coaxial cable that connects cable or satellite TV) connected to a device that is experiencing interference.

### To install the ferrite core:

- 1 Make sure that the TV power cord is unplugged.
- 2 Lift up on the tabs on the ferrite core, slide the cable into the slot, then close the core. Install the core near the jacks on the back of your TV.



- 3 Plug the power cord back in.

## Turning on your TV for the first time

The first time you turn on your TV, the Plug & Play wizard opens. The Plug & Play wizard guides you through setting up basic settings including the menu language, TV signal source, the channel list, and time.

### Note

You can also access these settings from the on-screen menu.

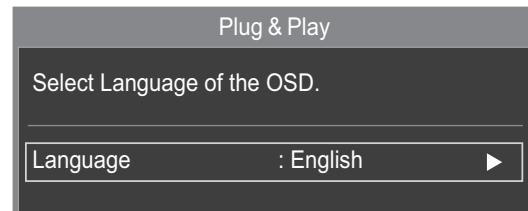
Press **MENU** on the remote control, press **▲** or **▼** to highlight **SETUP**, then press **ENTER**. Press **▲** or **▼** to select **Plug&Play**, press **ENTER**, then press **▲** or **▼** to select the setting you want to adjust.

### To set up your TV:

- 1 Make sure that you have:

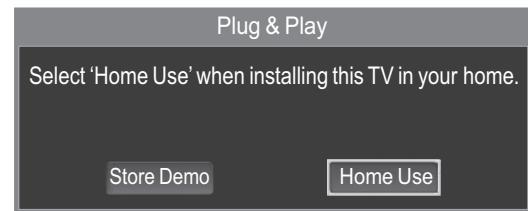
- Installed the remote control batteries. (See page 9 for details.)
- Connected an antenna, cable TV, or satellite TV. (See pages 11 through 14 for details.)
- Connected the power cord. (See page 11 for details.)

- 2 Press **◊** (power). The *Plug&Play Sets the menu language* menu opens.



- 3 Press **ENTER** to access the menu, then press **▲** or **▼** to highlight a language. You can select **English**, **French**, or **Spanish**.

- 4 Press **ENTER**. The *Select Home Use when installing this TV in your home* screen appears.

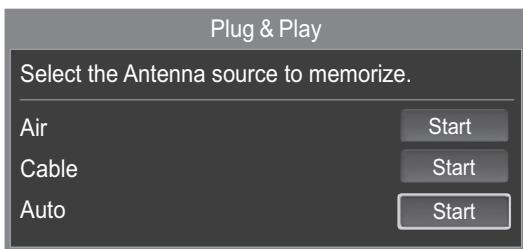


### Note

**Store Demo** mode is only intended for use in retail environments.

If your TV is accidentally set to **Store Demo** mode, reset the **Plug & Play** option. For more information, see "Resetting the Plug & Play option" on page 45.

5 Press **◀** or **▶** to highlight **Home Use**, then press **ENTER**. The *Select the Antenna source to memorize* screen appears.



6 Press **▲** or **▼** to highlight your TV signal source, then press **ENTER**. You can select **Air** (antenna), **Cable** (cable or satellite TV), or **Auto** (both antenna and cable TV). If you have digital cable, select **Auto**. If you have a set-top box, select **Cable** or **Auto**.

7 If you select **Cable**, press **▲** or **▼**, **◀** or **▶** to highlight the cable TV signal type, then press **ENTER**. You can select **STD**, **HRC**, or **IRC** for analog (antenna-based or without a cable box) or digital signals. **STD** is the most common setting. If you do not know which type of cable TV signal you have, contact your cable TV provider. You do not need to select a signal type if you have a satellite set-top box.

**Note**

- Standard Cable TV (STD) - The most widely used method of spacing and transmitting television channels on a cable television system to prevent interference between the different channels. If your first broadcast channel is channel 2, then your cable company uses Standard. If your first broadcast channel is channel 1, then your cable company uses the HRC (Harmonic Relate Carrier) method.
- Harmonic Related Carrier (HRC) - Harmonic Related Carrier is a method of spacing and transmitting television channels on a cable television system to prevent interference. The channels are spaced at 6-MHz intervals, with all carrier frequencies harmonically related to a common reference.
- Incremental Related Carriers (IRC) - A method of spacing and transmitting television channels on a cable television system that prevents interference between the channels and reduces a form of distortion.

Your TV starts searching for channels available in your viewing area. The channel information is stored in the channel list. Scrambled channels are not stored in the list.



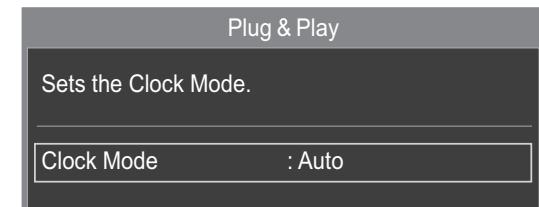
**Note**

To stop the search, press **ENTER**.

When the search is complete, the *Auto program is completed* screen appears, displaying the results of the search.



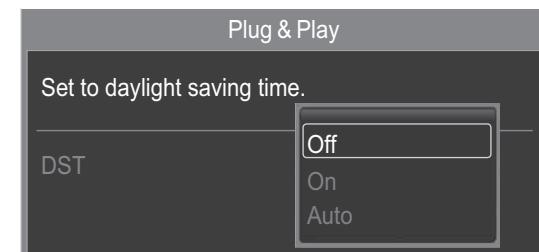
8 Press **ENTER**. The *Set the Clock Mode* screen appears.



9 Press **ENTER**, then press **▲** or **▼** to highlight **Auto** (to automatically set the time using time information from a digital channel) or **Manual** (to manually set the time), then press **ENTER**.



If you select **Auto**, the *Set to daylight saving time* screen appears.

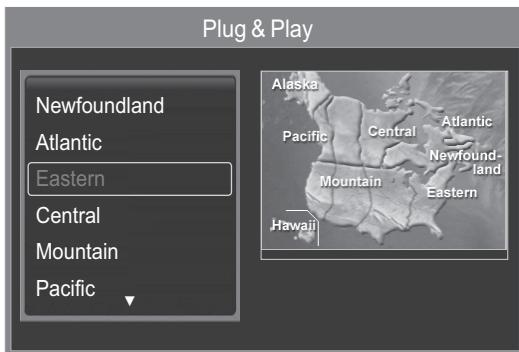


If you select **Manual**, the *Set current date and time* screen appears. For instructions on how to manually set the time, see "Setting the clock" on page 41.

10 If you selected **Auto**, press **▲** or **▼** to highlight:

- **Off**—Turns off the daylight saving time feature.
- **On**—Turns on the daylight saving time feature.
- **Auto**—Sets the daylight saving time feature based on the time information from a digital channel.

11 Press **ENTER**. The *Set the time zone* screen appears.



12 Press **▲** or **▼** to highlight a time zone, then press **ENTER**. If you receive a digital channel signal, the time zone is selected automatically.

13 Press **ENTER**. The *Enjoy your TV* screen opens.



14 Press **ENTER**. Your TV is ready to use.

**Note**

If you want to reset the **Plug & Play** option, see "Resetting the Plug & Play option" on page 45.

## Understanding the basics

**Note**

Unless otherwise noted, all tasks in this section are based on using the remote control.

### Turning your TV on or off

**To turn your TV on and off:**

- 1 Make sure that the power cord is connected to your TV and a surge protector or power outlet. If you are using a surge protector, make sure that it is turned on.
- 2 Press **↓** (power) to turn on your TV.
- 3 Press **↓** (power) again to turn off your TV. Your TV goes into Standby mode.

**Warning**

When you turn off your TV, power still flows into it. To completely disconnect power, turn off the surge protector or unplug the power cord.

## Selecting the video input source

**To select the video input source:**

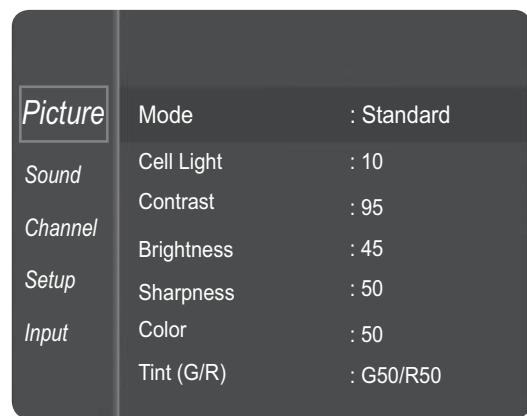
- Press **INPUT** one or more times to select:

- **TV**
- **AV**
- **Component1**
- **Component2**
- **HDMI1/DVI**
- **HDMI2**

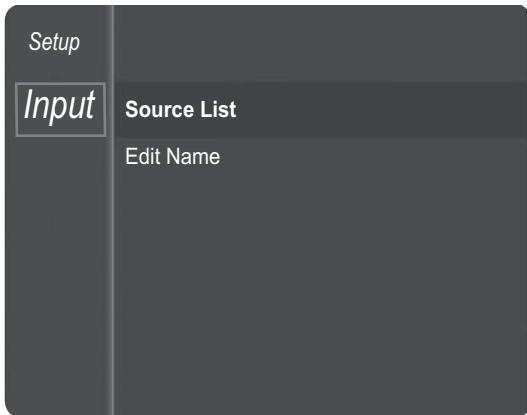
Video input sources that have devices connected to them are highlighted and sorted to the top. Video input sources that do not have devices connected to them are sorted to the bottom and cannot be selected.

**To select the video input source in the on-screen menu:**

- 1 Press **MENU**. The on-screen menu opens.



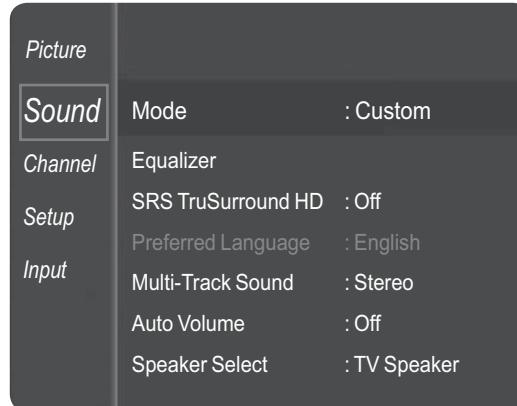
- 2 Press **▲** or **▼** to highlight **Input**, then press **ENTER** to access the *Input* menu. **Source List** is highlighted.



3 Press **ENTER** to open the *Source List*.



#### Sound menu

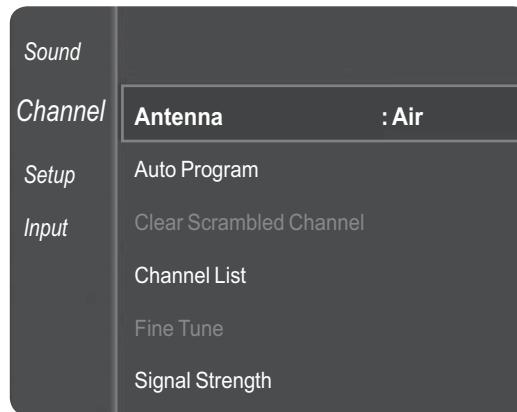


Multi-Track Sound : Stereo

Auto Volume : Off

Speaker Select : TV Speaker

#### Channel menu



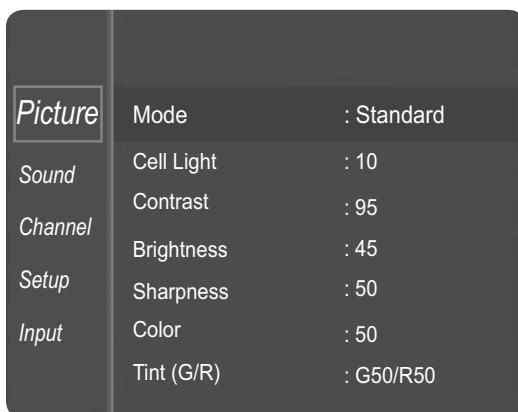
Channel List

Fine Tune

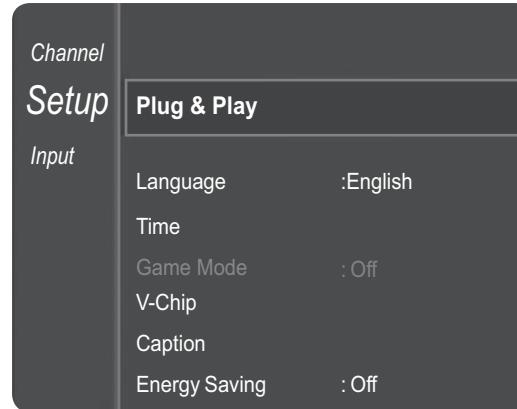
Signal Strength

#### On-screen menu overview

##### Picture menu



##### Setup menu



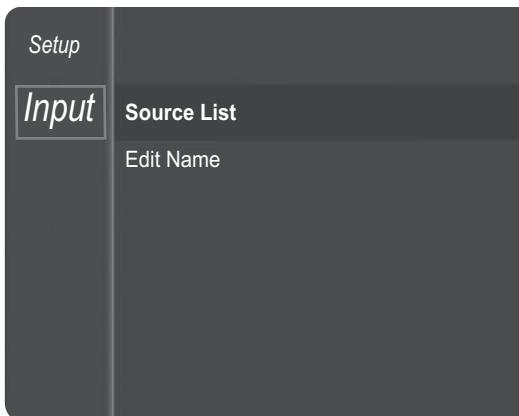
Time

Game Mode : Off

V-Chip

Caption

Energy Saving : Off

**Input menu****Navigating the menus****To navigate the on-screen menus:**

- 1 Press **MENU** to open the on-screen menu.
- 2 Press **▲** or **▼** to highlight a menu, then press **ENTER** to access the menu. You can select **Picture**, **Sound**, **Channel**, **Setup**, or **Input**.
- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** to access the option.
- 4 Press **▲** or **▼**, **◀** or **▶** to highlight a setting or adjust the option, then press **ENTER** to confirm.
- 5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

**Selecting a channel****To select a channel:**

- Press **CH ▲** or **CH ▼** to go to the next higher or lower channel in the channel list.
- Press the number buttons to directly select a channel. For example, if you want to view channel 27, press **2**, then press **7**. Your TV goes to the channel in a few seconds. If you want to go to the channel quicker, enter the channel number, then press **ENTER**.
- Press **RECALL** **↳** to go to the last viewed channel.
- To select a digital sub-channel, press the number buttons to select the main digital channel, press **—** (dash), then press the number button for the sub-channel. Wait for the channel to change, or press **ENTER** to immediately change the channel. For example, to tune to channel 5.1, press **5**, **—**, then **1**.

**Notes**

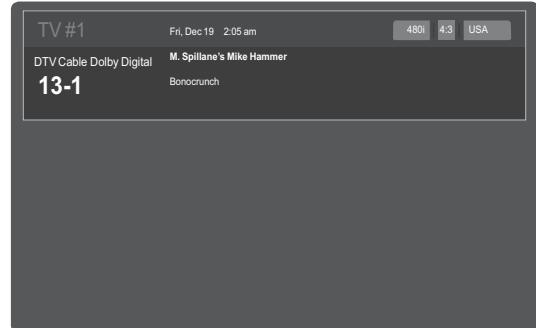
You can press the number buttons to go to a channel that was skipped in the channel scanning.

**Adjusting the volume****To adjust the volume:**

- Press **VOL –** or **VOL +** to decrease or increase the volume.
- Press **MUTE** **✳** to turn off the sound. Press **MUTE** **✳** again (or press **VOL –** or **VOL +**) to turn the sound back on.

**Displaying additional information****To display additional information:**

- 1 Press **DISPLAY**. Your TV displays status information, such as the channel number, type of sound, and picture and sound settings.



- 2 To close the display, press **DISPLAY** again or wait about 10 seconds.

# Adjusting the picture

## Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

## Adjusting the TV picture

### To adjust the picture:

- 1 Press **MENU**. The on-screen menu opens with **Picture** highlighted.

<b>Picture</b>	Mode : Standard
<b>Sound</b>	Cell Light : 10
<b>Channel</b>	Contrast : 95
<b>Setup</b>	Brightness : 45
<b>Input</b>	Sharpness : 50
	Color : 50
	Tint (G/R) : G50/R50

- 2 Press **ENTER** to access the *Picture* menu.
- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** to access the option.

## Note

You may need to press **▼** to see all of the options.

You can select:

- **Mode**—Selects the picture mode. You can select:
  - **Dynamic**—Selects a high-definition picture for bright environments.
  - **Standard**—Selects the optimal picture display for normal environments. This setting is convenient for most situations.
  - **Movie**—Selects a comfortable picture display for dark environments.

## Note

You can also press **PICTURE** one or more times to select the picture mode.

- **Contrast**—Adjusts the contrast.
- **Brightness**—Adjusts the brightness.
- **Sharpness**—Adjusts the sharpness.
- **Color**—Adjusts the color saturation.
- **Tint (G/R)**—Adjusts the intensity of red in the picture.
- **Picture Options**—Press **ENTER** to open a list of advanced picture options. For more information, see “Adjusting advanced picture settings” on page 25.
- **Picture Reset**—Resets all picture settings to the default settings. Press **ENTER** to reset picture settings.

- 4 Press **▲** or **▼**, **◀** or **▶** to adjust the setting, then press **ENTER** to confirm.
- 5 Press **EXIT** to close the menu.

## Notes

- When you make changes to **Contrast**, **Brightness**, **Sharpness**, **Color**, or **Tint G/R**, the on-screen menu is adjusted accordingly.
- You can adjust and store settings for each external device you have connected to an input of your TV.
- You can save power by reducing the brightness level.

## Turning the brightness sensor on or off

The brightness sensor adjusts the brightness of the TV screen based on the light level in the room.

### To turn the brightness sensor on or off:

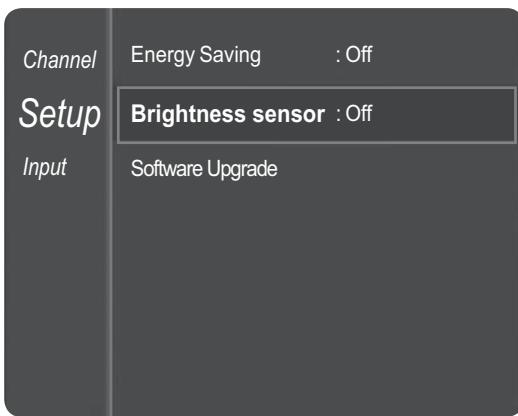
- 1 Press **MENU**. The on-screen menu opens.

<b>Picture</b>	Mode : Standard
<b>Sound</b>	Cell Light : 10
<b>Channel</b>	Contrast : 95
<b>Setup</b>	Brightness : 45
<b>Input</b>	Sharpness : 50
	Color : 50
	Tint (G/R) : G50/R50

- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.

<b>Channel</b>	<b>Plug &amp; Play</b>	
<b>Setup</b>	Language : English	
<b>Input</b>	Time	
	Game Mode : Off	
	V-Chip	
	Caption	
	Energy Saving : Off	

3 Press **▲** or **▼** to highlight **Brightness Sensor**, then press **ENTER**. The *Brightness Sensor* menu opens.

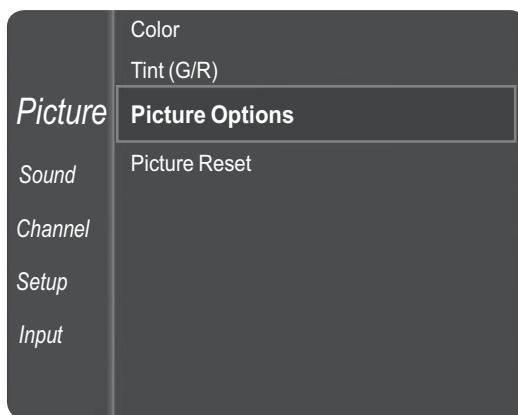


4 Press **▲** or **▼** to highlight **On** or **Off**, then press **ENTER**.  
 5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

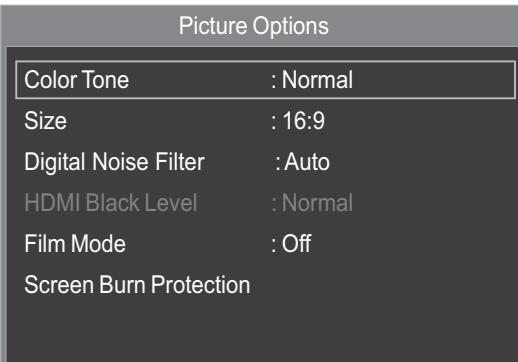
## Adjusting advanced picture settings

### To adjust advanced picture settings:

1 On the *Picture* menu, press **▲** or **▼** to highlight **Picture Options**.



2 Press **ENTER** to access the *Picture Options* menu.



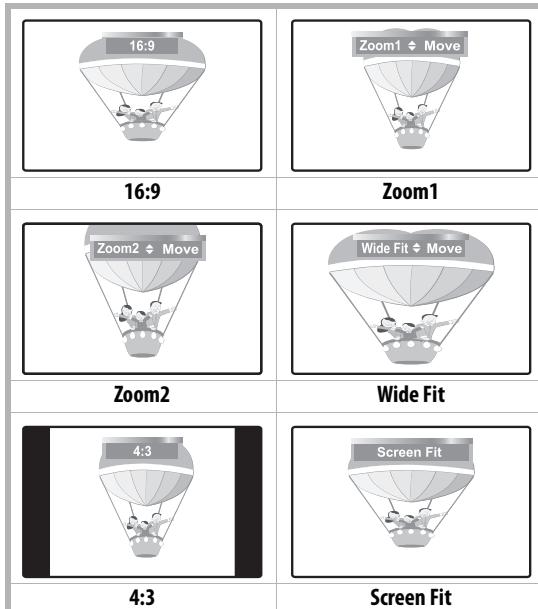
3 Press **▲** or **▼** to highlight an option, then press **ENTER** to access the option.

### Note

You may have to scroll down to see all the options.

You can select:

- **Color Tone**—Selects the color tone. You can select **Cool**, **Normal**, **Warm1**, or **Warm2**. **Warm1** and **Warm2** are only available if the **Mode** option is set to **Movie**.
- **Size**—Sets the picture aspect ratio. The availability of these options depends on the video input source. For more information, see “Picture sizes available for input sources” on page 26.



You can select:

- **16:9**—Sets the picture to the 16:9 aspect ratio.
- **Zoom1**—Stretches the 16:9 aspect ratio picture vertically.
- **Zoom2**—Stretches the **Zoom1** picture vertically.
- **Wide Fit**—Stretches the picture both horizontally and vertically to display the optimal picture.
- **4:3**—Sets the picture to the 4:3 aspect ratio.
- **Screen Fit**—Displays the full native HD signal that cannot be viewed using a normal TV.

For more information about adjusting the picture, see “Adjusting the picture size” on page 26.

### Note

You can also press **ZOOM** one or more times to select the picture size.

- **Digital Noise Filter**—(Digital Noise Reduction) Reduces noise (static and ghosting) that may appear on the screen. You can select **Off**, **Low**, **Medium**, **High**, or **Auto**.

- **HDMI Black Level**—Adjusts the black level of the picture when the video input source is a device connected to the **HDMI1 (DVI)** or **HDMI2** jack on the back of your TV. You can select:
  - **Normal**—The screen gets brighter.
  - **Low**—The screen gets darker.

**Note**

**HDMI Black Level** may not be compatible with all external devices.

- **Film Mode**—Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality. You can select **Off** or **Auto**.

**Note**

**Film mode** is supported in TV, Video, component video (480i/1080i), and HDMI (1080i) modes.

- **Screen Burn Protection**—Helps protect the screen from “burn-in.” When a screen image remains in one position for too long, the image may be permanently burned into the screen. You can select:
  - **Pixel Shift**—Shifts the picture position every two minutes.
  - **Scrolling**—Displays a moving pattern.
  - **Side Grey**—When the video source is displayed in a 4:3 picture size, sets the sides of the image to gray. You can select **Dark** (darkens the sides) or **Light** (brightens the sides).
- **Picture Reset**—Resets the advanced picture settings to the default settings. Press **ENTER** to reset picture settings.

- 4 Press **▲** or **▼**, **◀** or **▶** to adjust the setting, then press **ENTER** to confirm.
- 5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

## Adjusting the picture size

### To adjust the picture size:

- If you select **Zoom1**, **Zoom2**, or **Wide Fit**, you can adjust the position. Press **◀** or **▶** to highlight **Position**, then press **ENTER**. Press **▲** or **▼** to move the picture up or down. To reset the picture to the default setting, press **◀** or **▶** to highlight **Reset**, then press **ENTER**.
- If you select **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p) mode, you made need to center the picture. Press **◀** or **▶** to highlight **Position**, then press **ENTER**. Press **▲** or **▼**, **◀** or **▶** to move the picture. To reset the picture to the default setting, press **◀** or **▶** to highlight **Reset**, then press **ENTER**.

### Picture sizes available for input sources

Input source	Picture size
Analog TV, Video, Component (480i, 480p)	<b>16:9, Zoom1, Zoom2, 4:3</b>
Component (720p), Air	<b>16:9, Wide Fit, 4:3</b>
Digital TV (1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	<b>16:9, 4:3, Wide Fit, Screen Fit</b>

**Notes**

You can adjust and store settings for each external device you have connected to an input of your TV.

## Improving the image from a game console

You can improve the image and sound from a game console by turning the **Game Mode** feature on or off.

**Note**

The **Game Mode** feature is only available if a game console is connected to your TV.

### To turn the Game Mode feature on or off:

- 1 Press **MENU**. The on-screen menu opens.

<b>Picture</b>	Mode	: Standard
<b>Sound</b>	Cell Light	: 10
<b>Channel</b>	Contrast	: 95
<b>Setup</b>	Brightness	: 45
<b>Input</b>	Sharpness	: 50
	Color	: 50
	Tint (G/R)	: G50/R50

- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.

<b>Channel</b>		
<b>Setup</b>	<b>Plug &amp; Play</b>	
<b>Input</b>		
	Language	: English
	Time	
	Game Mode	: Off
	V-Chip	
	Caption	
	Energy Saving	: Off

- 3 Press **▲** or **▼** to highlight **Game Mode**, then press **ENTER**.

- 4 Press **▲** or **▼** to highlight **Off** or **On**, then press **ENTER**. When **Game Mode** is turned on,  appears on the screen.

5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

#### Notes

When Game Mode is on:

- The picture mode is set to **Standard** and cannot be changed.
- The sound mode is set to **Custom** and cannot be changed. The **Equalizer** settings are reset to the default settings. Use the **Equalizer** settings to adjust the sound.
- If you open the on-screen menu, the menu shakes slightly.

## Adjusting the computer image

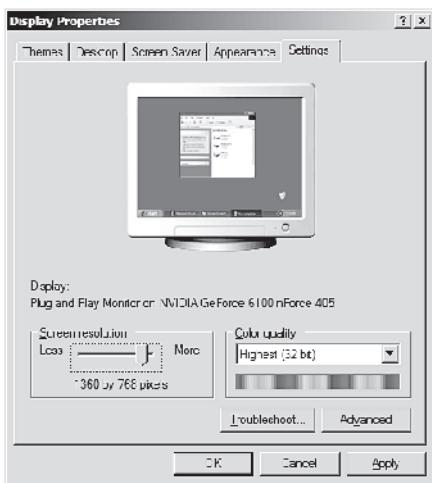
#### To adjust the computer image:

1 Right-click a blank space on the Windows desktop. The *Display Properties* dialog box opens.

#### Note

The *Display Properties* dialog box may appear different depending on your version of Windows and your video card. However, these steps should work in most cases.

2 Click the **Settings** tab.



3 Drag the screen resolution slider to the correct resolution. The best resolution is:

- NS-42P650A11**—1024 x 768
- NS-50P650A11**—1360 x 768

4 If the dialog box has a vertical frequency option, set it to **60** or **60 Hz**.

5 Click **OK** to close the dialog box.

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system does not equal the standard signal mode, adjust the mode (refer to your video card user guide), or there may be no video. For a list of compatible display modes, see "Computer display modes" on page 49.

## Using Energy Saving mode

You can save energy by reducing the brightness of the screen.

#### To use Energy Saving mode:

1 Press **MENU**. The on-screen menu opens.

<b>Picture</b>	Mode	: Standard
Sound	Cell Light	: 10
Channel	Contrast	: 95
Setup	Brightness	: 45
Input	Sharpness	: 50
	Color	: 50
	Tint (G/R)	: G50/R50

2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.

<b>Channel</b>	<b>Plug &amp; Play</b>	
<b>Setup</b>	Language	: English
<i>Input</i>	Time	
	Game Mode	: Off
	V-Chip	
	Caption	
	Energy Saving	: Off

3 Press **▲** or **▼** to highlight **Energy Saving**, then press **ENTER**.

4 Press **▲** or **▼** to highlight a mode, then press **ENTER**. You can select:

- Off**—Turns off energy saving.
- Low**—Sets mode to low.
- Medium**—Sets the mode to medium.
- High**—Sets the mode to maximum. Use this mode to watch TV in a dark environment. It reduces eye strain as well as saves energy.

5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

# Adjusting the sound

## Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

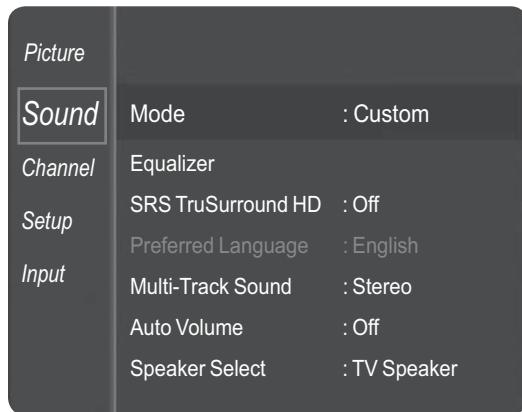
## Adjusting the sound

### To adjust the sound:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Sound**, then press **ENTER** to access the Sound menu.



- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** to access the option.

## Note

You may need to press **▼** to see all the options.

You can select:

- **Mode**—Selects the sound mode. You can select:
  - **Standard**—Use for general purposes.
  - **Music**—Lets you listen to music as if you are sitting in a concert hall.
  - **Movie**—Lets you experience movie sound as if you are sitting in a movie theater.
  - **Clear Voice**—Emphasizes voice over other sounds. Select this sound mode when watching news, soap operas, or documentaries.
  - **Custom**—Lets you customize the sound settings to suit your personal preferences.

- **Equalizer**—Sets the equalizer mode. You can select:

- **Mode**—Selects the sound mode among the predefined settings. You can select **Standard**, **Music**, **Movie**, **Clear Voice**, or **Custom**.
- **Balance L/R**—Adjusts the balance between the right and left speaker.
- **100 Hz, 300 Hz, 1 kHz, 3 kHz**, and **10 kHz**—Adjusts the level of different bandwidth frequencies.
- **Reset**—Resets the equalizer settings to the default values.
- **SRS TruSurround HD**—If the sound is in 5.1 Surround Sound format, downmixes the sound to produce Surround Sound quality audio through your TV's speakers.
- **Preferred Language**—Selects the language for a digital TV program, if multiple tracks are available.

## Note

You can also press **MTS** one or more times to select the language for a digital program.

- **Multi-Track Sound**—Selects the audio mode for an analog TV program. You can select **Mono**, **Stereo**, or **SAP** (secondary audio programming), depending on available audio formats for the program. If you are having difficulty receiving stereo audio, select **Mono**.

## Note

You can also press **MTS** one or more times to select the analog audio mode.

- **Auto Volume**—Automatically adjusts the volume when changing channels. You can select **On** or **Off**.
- **Speaker Select**—Selects the speakers the TV sound is played through. You can select:
  - **External Speaker**—Turns the TV speakers off and plays the sound through the speakers of a connected amplifier. When you select this option, the volume and **MUTE** buttons on the TV and the TV remote do not work. You need to adjust the volume using the amplifier controls.
  - **TV Speaker**—Plays the sound through the TV speakers.
- **Sound Reset**—Resets some or all of the sound settings to the default settings. You can select:
  - **Reset All**—Resets all the sound settings to default settings. Press **ENTER** to reset sound settings.
  - **Reset Sound Mode**—Resets the current sound **Mode** settings to default settings. For more information, see the **Equalizer** option in this step.
  - **Cancel**—Cancels any changes you have made.
- 4 Press **▲** **▼** **◀** or **▶** to adjust the option, then press **ENTER** to confirm.
- 5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

# Changing channel settings

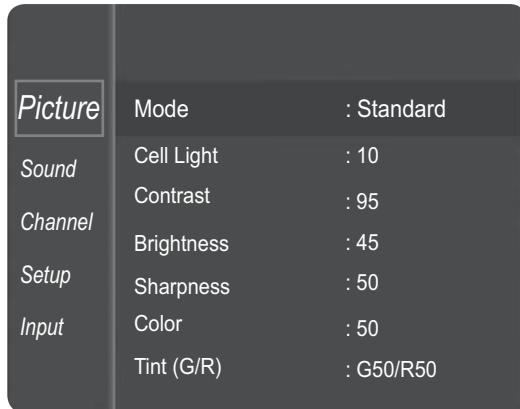
## Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

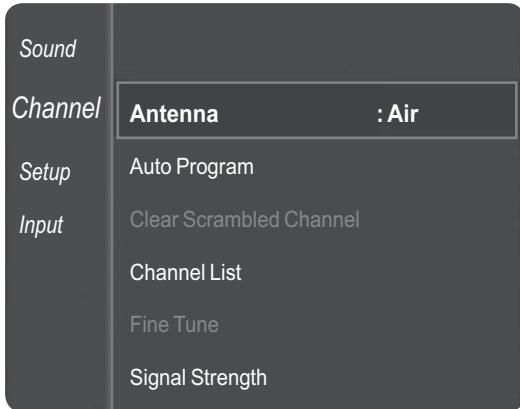
## Automatically searching for channels

### To automatically search for channels:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Channel**, then press **ENTER** to access the *Channel* menu. **Antenna** is highlighted.



- 3 Press **ENTER** to access the **Antenna** option, press **▲** or **▼** to highlight **Air** (antenna signal) or **Cable** (cable TV signal), then press **ENTER** to confirm. For more information, see "Resetting the Plug & Play option" on page 45.
- 4 Press **▲** or **▼** to highlight **Auto Program**, then press **ENTER** to access the option.

- 5 Press **▲** or **▼** to highlight **Air** (antenna signal), **Cable** (cable TV signal), or **Auto** (antenna and cable TV signals), then press **ENTER** to start the search. Your TV searches for channels in your viewing area that have a signal and stores the channel information in the channel list. After your TV stores the channel information, it deletes scrambled channels from the channel list.

## Note

If you want to stop the search, press **ENTER**. The *Stop Auto Program?* message appears. Press **◀** or **▶** to highlight **Yes**, then press **ENTER**.

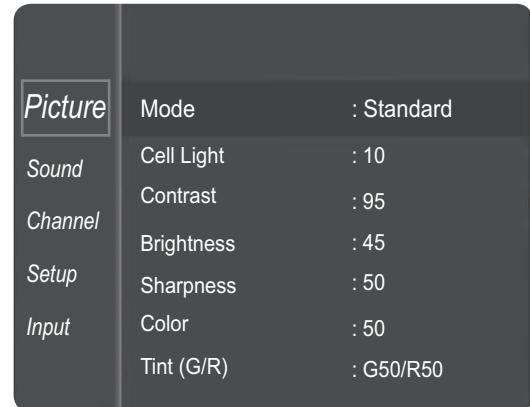
## Removing scrambled channels from the channel list

## Note

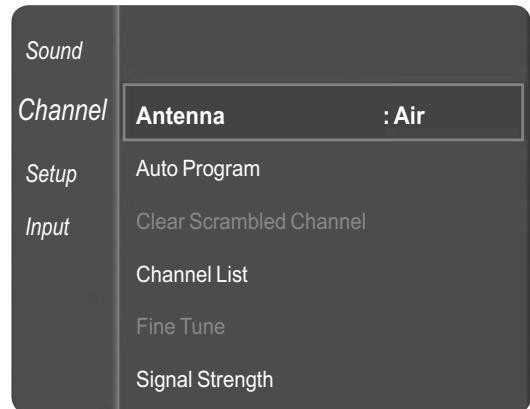
The **Clear Scrambled Channel** feature only works in cable mode.

### To remove scrambled channels from the channel list:

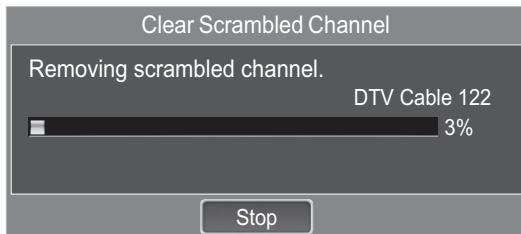
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Channel**, then press **ENTER** to access the *Channel* menu.



3 Press **▲** or **▼** to highlight **Clear Scrambled Channel**, then press **ENTER**. Your TV removes scrambled channels from the channel list. This process may take 20 to 30 minutes. The status of the process is shown on the screen.



4 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

**Note**

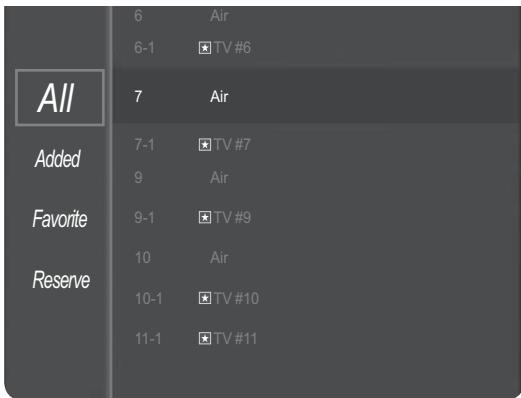
If you want to stop the clearing scrambled channels process, press **ENTER** to highlight **Stop**, press **◀** to highlight **Yes**, then press **ENTER**.

## Opening the channel list

From the channel list, you can add or delete channels from the channel list, add or delete channels from the *Favorite List*, and schedule reserved programs.

**To open the channel list:**

1 Press **CH.LIST**. The channel list opens.



2 Press **▲** or **▼** to highlight a list, then press **ENTER** to access the list. You can select:

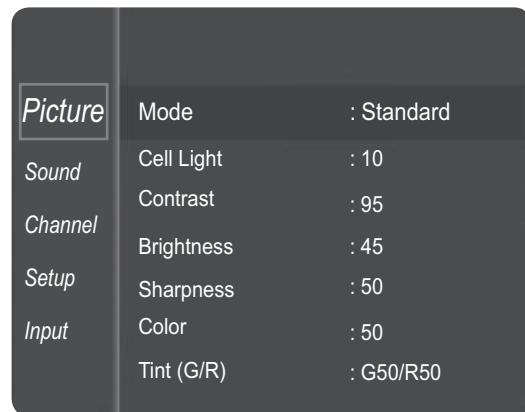
- **All**—Shows all currently available channels.
- **Added**—Shows all added channels.
- **Favorite**—Shows all favorite channels. A appears next to favorite channels in the channel list. For more information, see "Setting up a favorite channel list" on page 32.
- **Reserve**—Shows all current reserved programs. A appears next to reserved programs in the channel list. For more information, see "Reserving programs" on page 31.

3 Press **OPTIONS** to access a list of options, press **▲** or **▼** to highlight an option, then press **ENTER**.

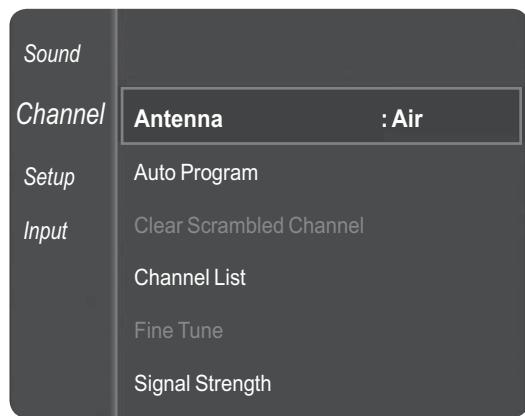
## Fine-tuning an analog channel

**To fine-tune an analog channel:**

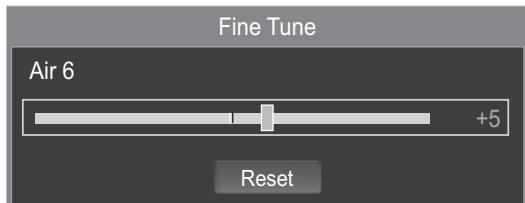
1 Press **MENU**. The on-screen menu opens.



2 Press **▲** or **▼** to highlight **Channel**, then press **ENTER** to access the *Channel* menu.



3 Press **▲** or **▼** to highlight **Fine Tune**, then press **ENTER** to access the *Fine Tune* screen.



4 Press **◀** or **▶** to fine-tune the channel, then press **ENTER** to confirm.

5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

**Notes**

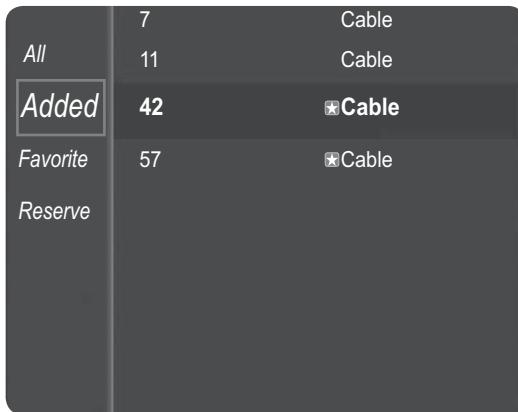
- If you do not store the fine-tuned channel in memory, your adjustments are not saved.
- \* appears next to the name of fine-tuned channels in the channel list.
- To reset the fine tuning setting, press **▼** to highlight **Reset**, then press **ENTER**.

## Reserving programs

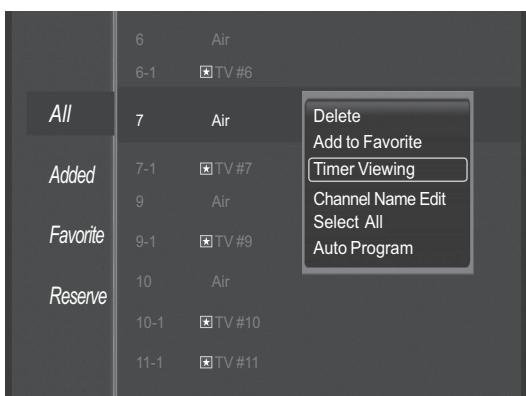
You can reserve (schedule) a program that you want to watch. When the program time arrives, your TV switches to the channel that is broadcasting the program.

### To reserve a program:

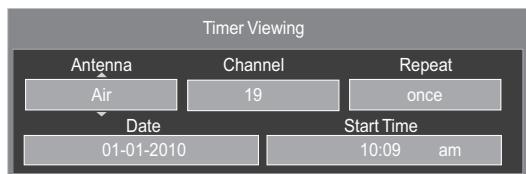
- 1 Press **CH.LIST**. The channel list opens.



- 2 Press **▲** or **▼** to highlight a the channel you want to reserve, then press **OPTION**.
- 3 Press **▲** or **▼** to highlight **Timer Viewing**.



- 4 Press **ENTER**. The *Timer Viewing* screen opens.



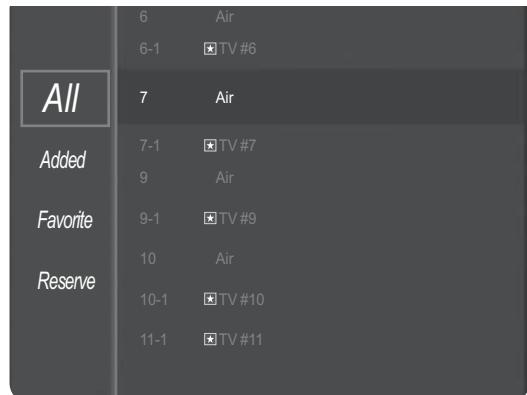
- 5 Press **▲** or **▼** to change an item. Press **◀** or **▶** to move from item to item.
- 6 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

## Changing a reservation

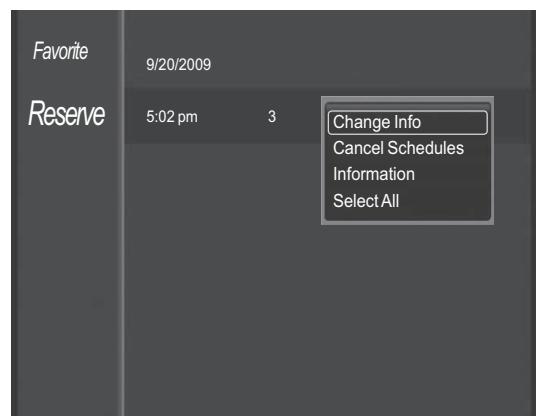
After you reserve a program, you can change the reservation.

### To change a reservation:

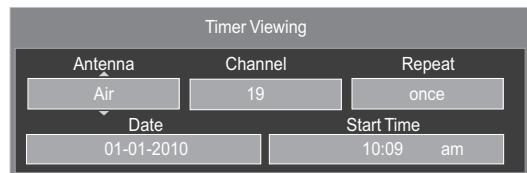
- 1 Press **CH.LIST**. The channel list opens.



- 2 Press **▲** or **▼** to highlight **Reserve**, then press **ENTER**. The list of reserved programs appears.
- 3 Press **▲** or **▼** to highlight the reservation you want to change, then press **ENTER**.
- 4 Press **OPTION** to open the list of options.



- 5 Press **▲** or **▼** to highlight **Change Info**, then press **ENTER**. The *Timer Viewing* screen opens and displays the reserved program information.



- 6 Press **▲** or **▼** to change an item. Press **◀** or **▶** to move from item to item.
- 7 After you make your changes, press **RETURN** to return to the previous menu or **EXIT** to close the menu.

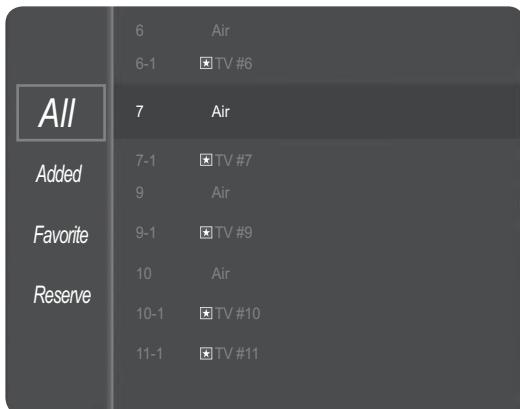
### Note

If you want to delete a reserved program, repeat Steps 1 through 6 and select **Cancel Schedules** in Step 6.

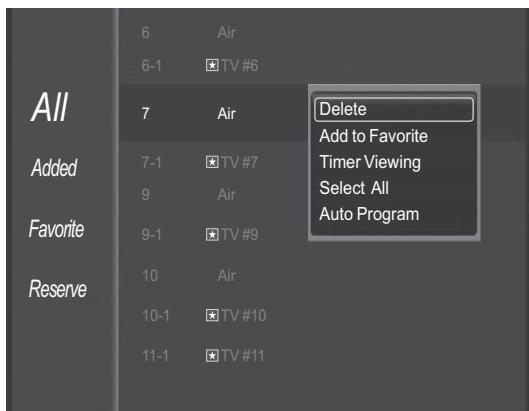
## Hiding channels

### To hide channels:

- 1 Press **CH.LIST**. The channel list opens with **All** highlighted.



- 2 Press **▲** or **▼** to highlight the channel you want to hide (delete from the channel list), then press **ENTER**.
- 3 Press **OPTION** to access the list of options. **Delete** is highlighted.



- 4 Press **ENTER**. The channel is grayed in the channel list. When you press **CH ▲** or **CH ▼**, your TV will skip the channel. You can still tune to the channel by pressing the number buttons to enter the channel number.

#### Note

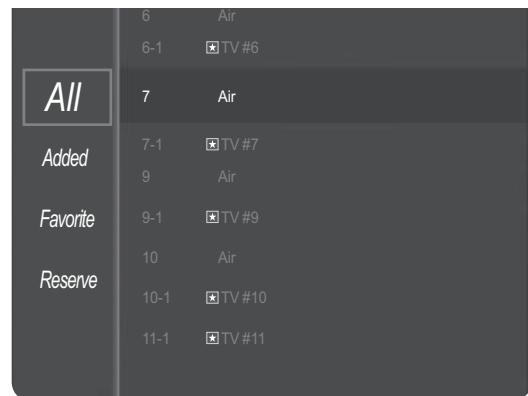
The **Add** option only appears in the option list if you have deleted channels.

If you want to add a channel back to the channel list, repeat this task and select **Add** instead of **Delete**.

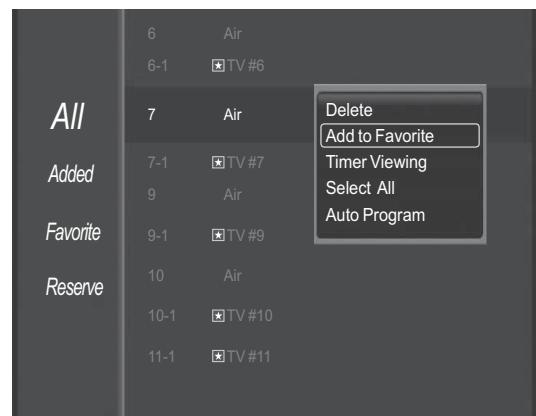
## Setting up a favorite channel list

### To set up a favorite channel list:

- 1 Press **CH.LIST**. The channel list opens.



- 2 Press **▲** or **▼** to highlight a the channel you want to add to the *Favorite List*, then press **OPTION**.
- 3 Press **▲** or **▼** to highlight **Add to Favorite**.



- 4 Press **ENTER**. A **★** appears next to favorite channels in the channel list.

#### Note

The **Delete from Favorite** option only appears in the option list if you have added channels to the *Favorite List*.

To delete a channel from the *Favorite List*, repeat this task and select **Delete from Favorite** instead of **Add to Favorite**.

To select all the channels in the *Favorite List*, press **OPTION**, **▲**, or **▼** to highlight **Select All**, then press **ENTER**. If you want to delete all of the channels in the *Favorite List*, this is a quick way to select them.

- 5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

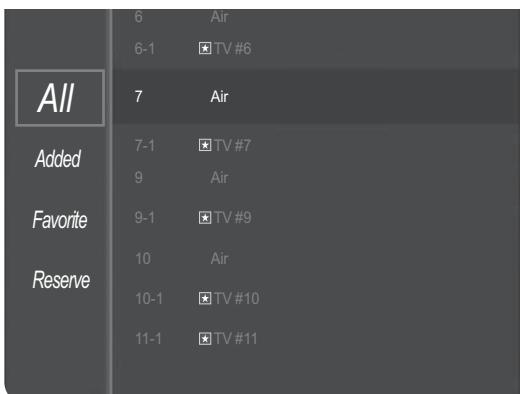
## Viewing a favorite channel

### To toggle through the favorite channels:

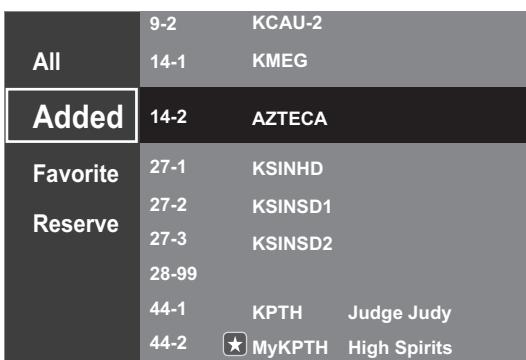
- Press **FAV. CH.** one or more times until you see the channel you want.

### To view a favorite channel:

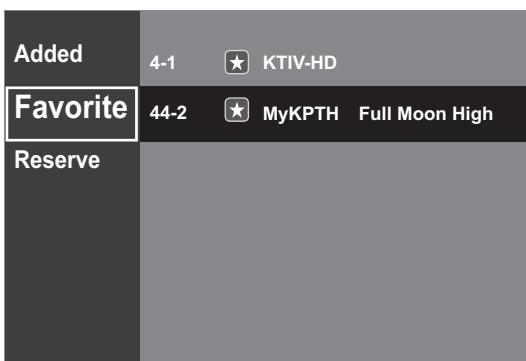
- Press **CH. LIST**. The *Channel List* opens.



- Press **◀** to access the menu options.



- Press **▲** or **▼** to highlight **Favorite**, then press **ENTER**. The *Favorites* menu opens.

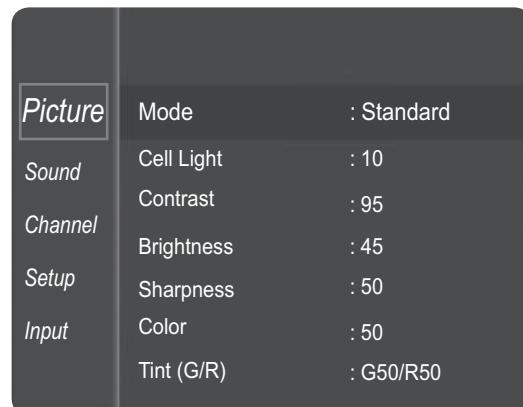


- Press **▲** or **▼** to highlight the channel you want to watch, then press **ENTER**. Your TV tunes to the channel you selected.

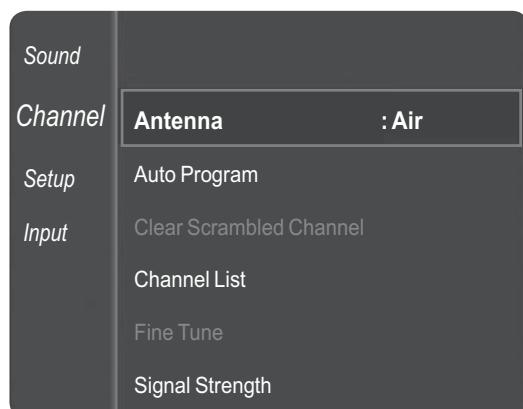
## Checking the DTV signal strength

### To check the DTV signal strength:

- Press **MENU**. The on-screen menu opens.



- Press **▲** or **▼** to highlight **Channel**, then press **ENTER** to access the *Channel* menu.



- Press **▲** or **▼** to highlight **Signal Strength**, then press **ENTER**. The *Signal Strength* screen opens.



### Note

You cannot fine-tune a digital channel. However, you can adjust the antenna to improve the signal strength.

- Press **ENTER** to close the *Signal Strength* screen.
- Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

# Setting parental controls

## Note

Parental controls are not available in HDMI or component video mode.

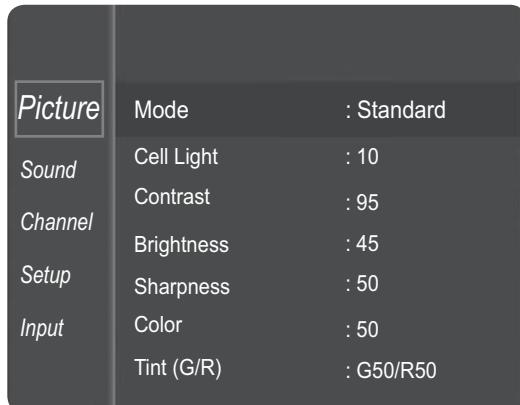
## Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

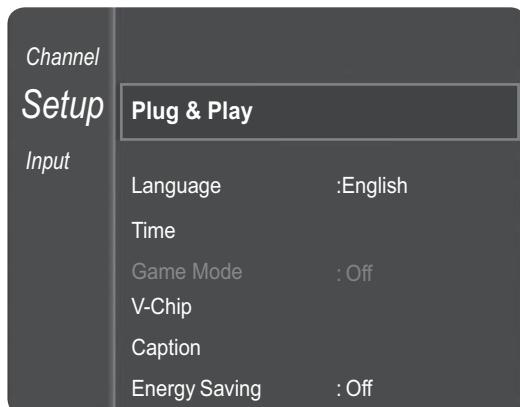
## Setting or changing the password

### To set up a password:

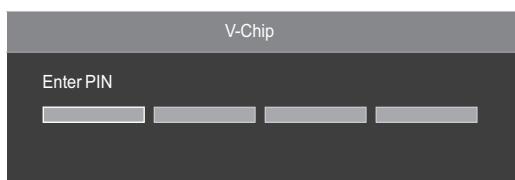
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.



- 3 Press **▲** or **▼** to highlight **V-Chip**, then press **ENTER** to access the **V-Chip** password screen opens.



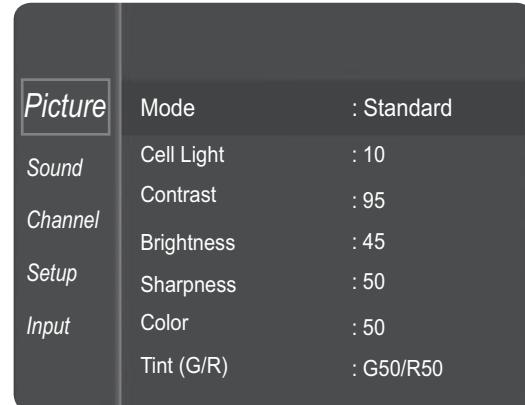
- 4 Press the number buttons to enter the password, then press **ENTER**. The default password is **0000**. If you forget the password, you need to reset your TV to the factory defaults. See "Resetting settings to the defaults" on page 45.

- 5 Press **▲** or **▼** to highlight **Change PIN**, then press **ENTER**.
- 6 Press the number buttons to enter the new password, press **ENTER**, then enter the new password again and press **ENTER**.
- 7 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

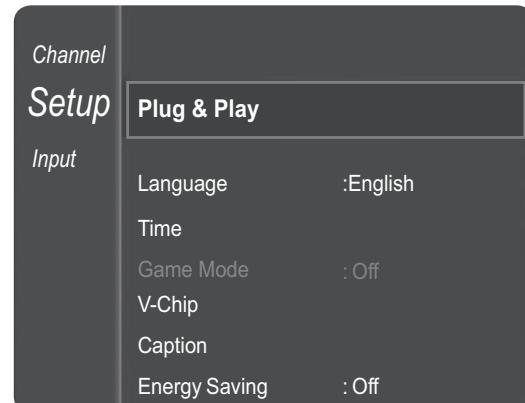
## Turning parental controls on or off

### To set parental control levels:

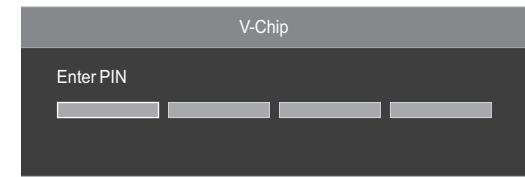
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.



- 3 Press **▲** or **▼** to highlight **V-Chip**, then press **ENTER** to access the **V-Chip** menu.

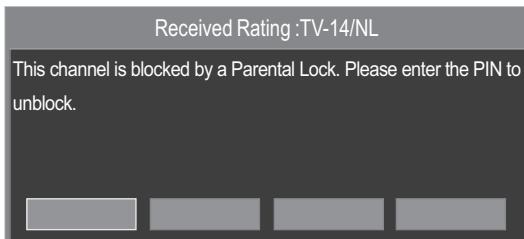


- 4 Press the number buttons to enter the password, then press **ENTER**. The default password is **0000**.
- 5 Press **▲** or **▼** to highlight **V-Chip Lock**, then press **ENTER**.
- 6 Press **▲** or **▼** to highlight **On** or **Off**, then press **ENTER**.

## Temporarily unblocking a channel

### To temporarily unblock a channel:

- When you tune to a channel or program that is blocked and the following screen appears, Press the number buttons to enter the password, then press **ENTER**.



## Setting U.S. TV parental control levels

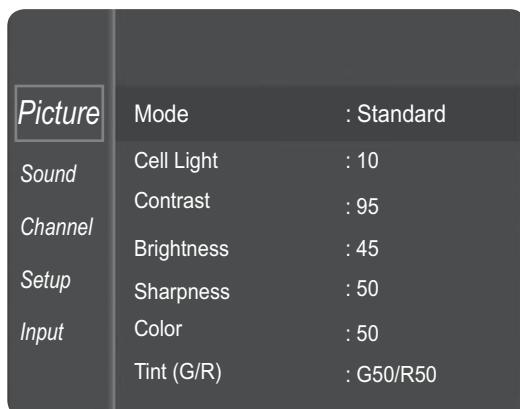
U.S. TV ratings	
NONE	Not rated
TV-Y	All children
TV-Y7	Children over seven years of age
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature audiences only

Some of the age-based TV parental guidelines ratings also have content-based ratings.

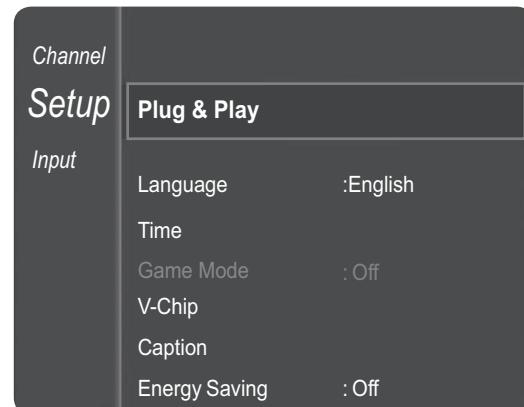
U.S. TV content ratings	
FV	Fantasy violence
L	Adult language
S	Sexual situations
V	Violence
D	Sexually suggestive dialog

### To set U.S. TV parental control levels:

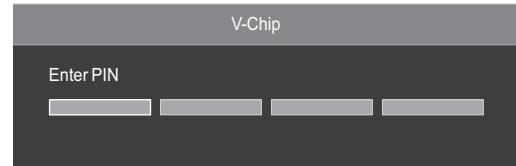
- Press **MENU**. The on-screen menu opens.



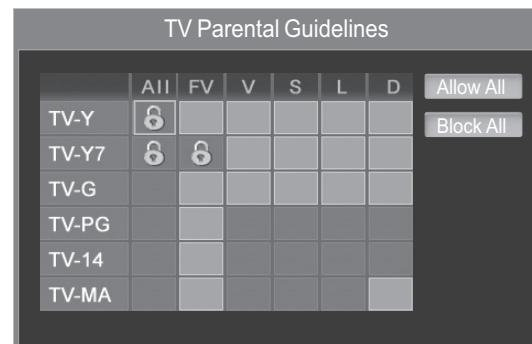
- Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.



- Press **▲** or **▼** to highlight **V-Chip**, then press **ENTER** to access the **V-Chip** menu.



- Press the number buttons to enter the password, then press **ENTER**. The default password is **0000**.
- Press **▲** or **▼** to highlight **V-Chip Lock**, then press **ENTER**.
- Press **▲** or **▼** to highlight **On**, then press **ENTER**. The V-Chip Lock must be on to change parental control levels.
- Press **▲** or **▼** to highlight **TV Parental Guidelines**, then press **ENTER** to access the **TV Parental Guidelines** screen.



- Press **▲** or **▼**, **◀** or **▶** to highlight a rating, then press **ENTER**. The rating you selected and all higher ratings are blocked.

### Note

If you want to block all channels, highlight **Block All**, then press **ENTER**. If you want to unblock all channels, highlight **Allow All**, then press **ENTER**.

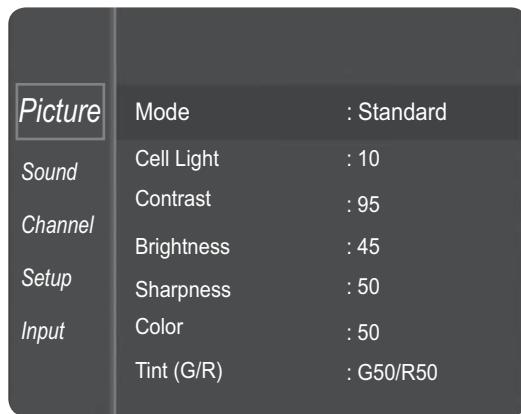
- Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

## Setting movie levels

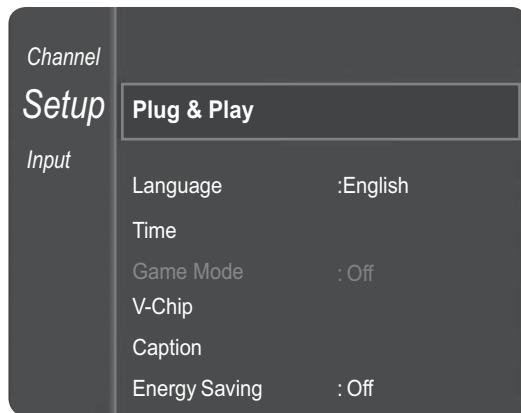
U.S. movie (MPAA) ratings	
G	General audiences
PG	Parental guidance suggested
PG-13	Suitable for children 13 and older
R	Parental guidance suggested for children under 17
NC-17	Not suitable for children under 17
X	Adults only
N/A	Movie not rated

### To set movie levels:

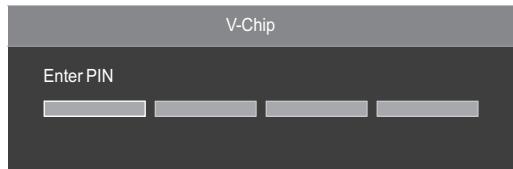
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.

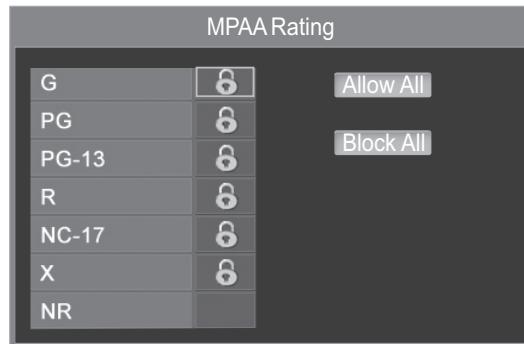


- 3 Press **▲** or **▼** to highlight **V-Chip**, then press **ENTER** to access the **V-Chip** menu.



- 4 Press the number buttons to enter the password, then press **ENTER**. The default password is **0000**.

- 5 Press **▲** or **▼** to highlight **V-Chip Lock**, then press **ENTER**.
- 6 Press **▲** or **▼** to highlight **On**, then press **ENTER**. The V-Chip Lock must be on to change parental control levels.
- 7 Press **▲** or **▼** to highlight **MPAA**, then press **ENTER** to access the **MPAA Rating** screen.



### Note

If you want to block all movie ratings, highlight **Block All**, then press **ENTER**. If you want to unblock all movie ratings, highlight **Allow All**, then press **ENTER**.

- 8 Press **▲** or **▼** to highlight a rating, then press **ENTER**. The rating you selected and all higher ratings are blocked.
- 9 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

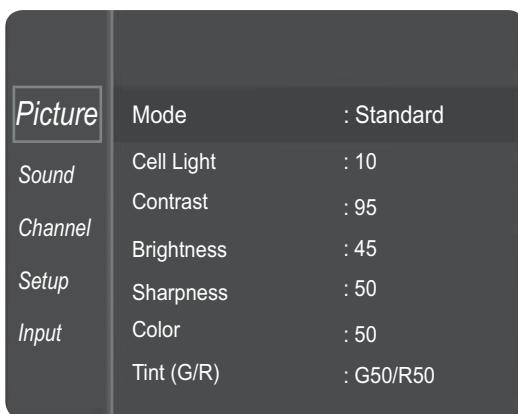
## Setting Canadian TV rating levels

Canadian English ratings	
E	Exempt programming
C	Children
C8+	Children over 8 years old
G	General audiences
PG	Parental guidance
14+	Over 14 years old
18+	Adult programming

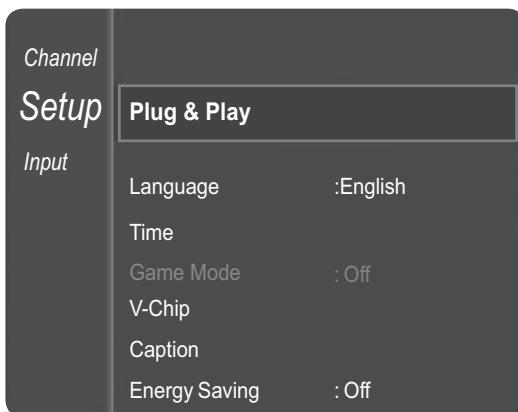
Canadian French ratings	
E	Exempt programming
G	General audiences
8ans+	Over 8 years old
13ans+	Over 13 years old
16ans+	Over 16 years old
18ans+	Over 18 years old, only for adult viewing

**To set Canadian TV ratings levels:**

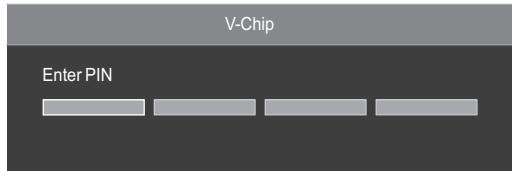
1 Press **MENU**. The on-screen menu opens.



2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.



3 Press **▲** or **▼** to highlight **V-Chip**, then press **ENTER** to access the *V-Chip* menu.

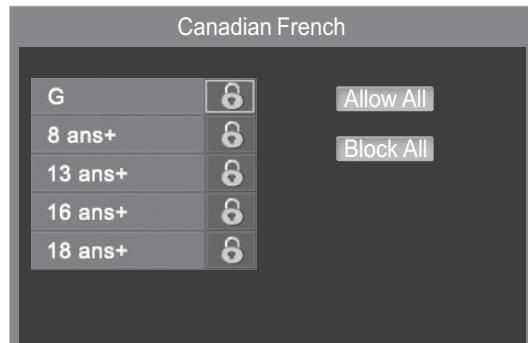


4 Press the number buttons to enter the password, then press **ENTER**. The default password is **0000**.

5 Press **▲** or **▼** to highlight **V-Chip Lock**, then press **ENTER**.

6 Press **▲** or **▼** to highlight **On**, then press **ENTER**. The V-Chip Lock must be on to change parental control levels.

7 Press **▲** or **▼** to highlight **Canadian English** or **Canadian French**, then press **ENTER**. A screen similar to the following opens.



8 Press **▲** or **▼** to highlight a rating, then press **ENTER**. The rating you selected and all higher ratings are blocked.

**Note**

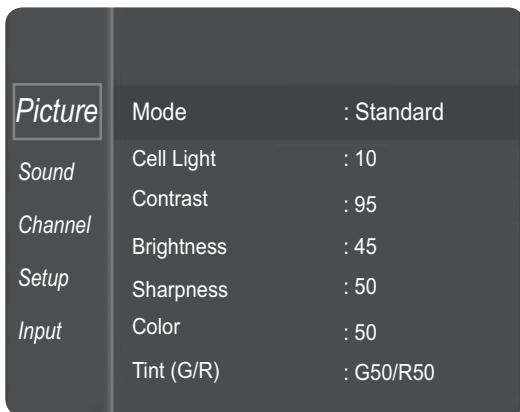
If you want to block all channels, highlight **Block All**, then press **ENTER**. If you want to unblock all channels, highlight **Allow All**, then press **ENTER**.

9 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

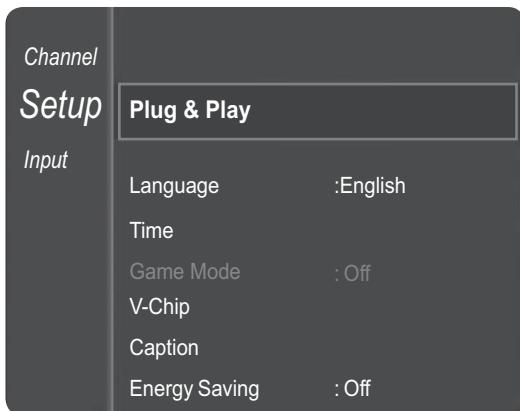
## Downloading rating information

### To download rating information:

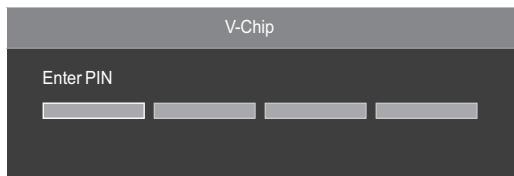
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.

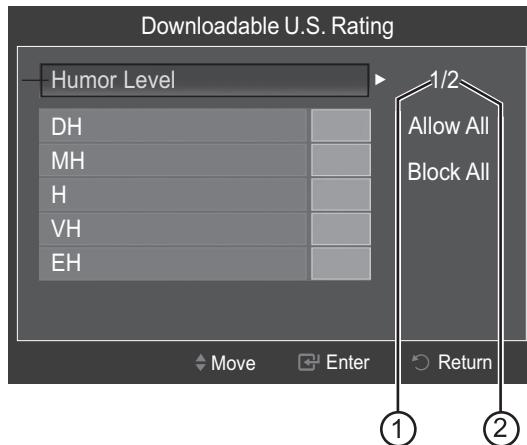


- 3 Press **▲** or **▼** to highlight **V-Chip**, then press **ENTER** to access the *V-Chip* menu.



- 4 Press the number buttons to enter the password, then press **ENTER**. The default password is **0000**.
- 5 Press **▲** or **▼** to highlight **V-Chip Lock**, then press **ENTER**.
- 6 Press **▲** or **▼** to highlight **On**, then press **ENTER**. The V-Chip Lock must be on to change parental control levels.

- 7 Press **▲** or **▼** to highlight **Downloadable U.S. Rating**, then press **ENTER** to access the *Downloadable U.S. Rating* menu.



(1) Number for the current rating information download.

(2) Total of all rating information downloads.

### Notes

- The rating screen and rating information that appears vary depending on the rating information provided by the broadcaster.
- Regardless of the menu language you select, the downloaded rating information is always in English.

- 8 Press **▲** or **▼** to highlight a rating, then press **ENTER**. The rating is blocked.
- 9 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

# Using closed captioning

## Notes

- Closed captioning is not available in HDMI or component video mode.
- The availability of closed captioning depends on the broadcaster.

## Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

## Viewing closed captioning

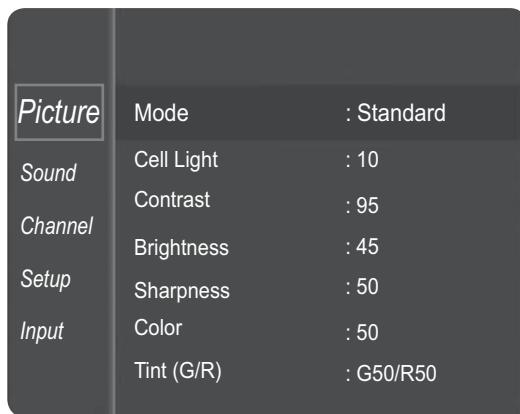
### To view closed captions:

- Press **CCD** to turn closed captioning **On** or **Off**.

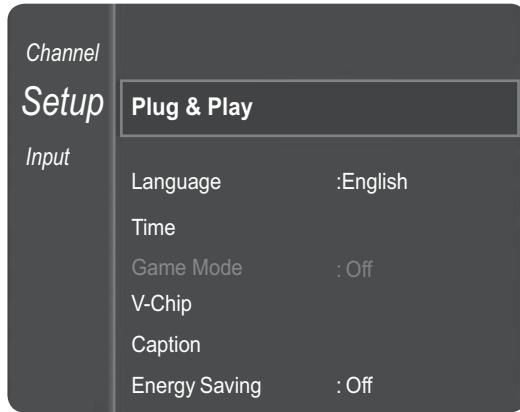
## Selecting the closed captioning mode

### To select the closed captioning mode:

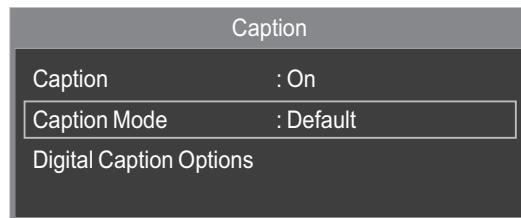
- 1 Press **MENU**. The on-screen menu opens.



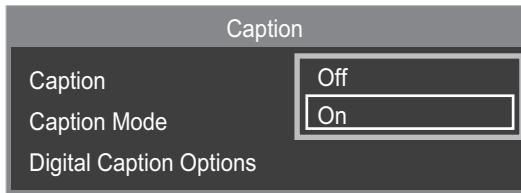
- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.



- 3 Press **▲** or **▼** to highlight **Caption**, then press **ENTER** to access the **Caption** menu.

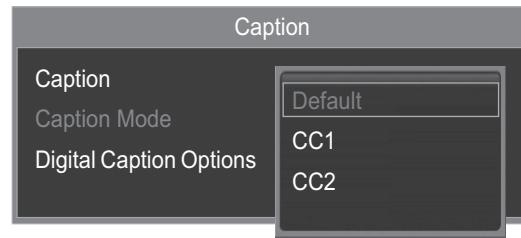


- 4 Press **▲** or **▼** to highlight **On**. The Caption option must be on to change closed caption settings.



- 5 Press **ENTER**.

- 6 Press **▲** or **▼** to highlight **Caption Mode**, then press **ENTER**.



- 7 Press **▲** or **▼** to highlight a caption mode, then press **ENTER**. You can select:

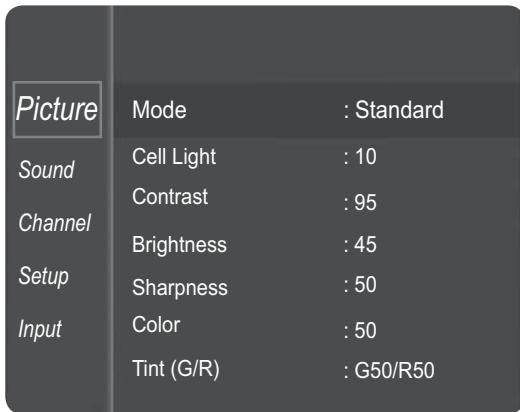
- **Default**, **CC1** through **CC4**, or **Text1** through **Text4** for analog channels.
- **Default**, **Service1** through **Service6**, **CC1** through **CC4**, or **Text1** through **Text4** for digital channels.

- 8 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

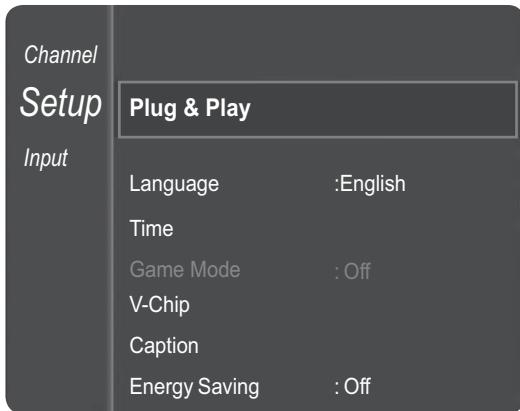
## Customizing DTV closed captioning styles

### To customize DTV closed captioning styles:

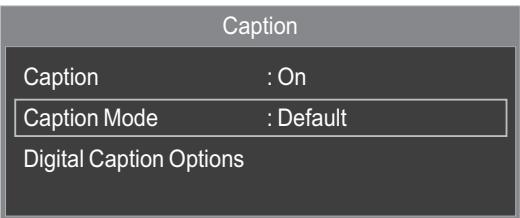
- 1 Press **MENU**. The on-screen menu opens.



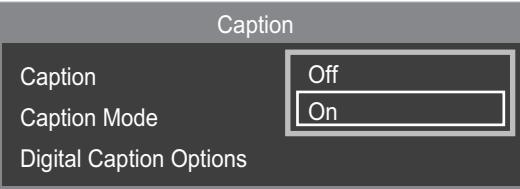
- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.



- 3 Press **▲** or **▼** to highlight **Caption**, then press **ENTER** to access the *Caption* menu.

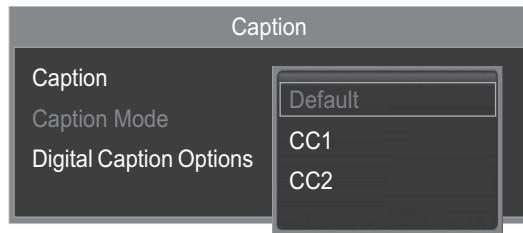


- 4 Press **▲** or **▼** to highlight **On**. The Caption option must be on to change closed caption settings.

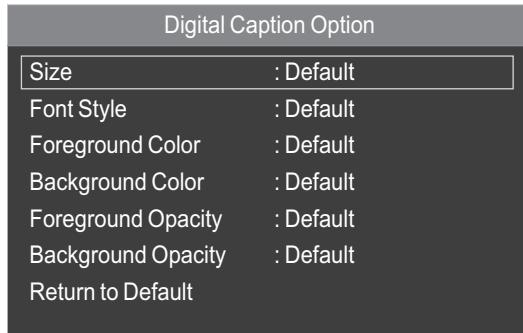


- 5 Press **ENTER**.

- 6 Press **▲** or **▼** to highlight **Caption Mode**, then press **ENTER**.

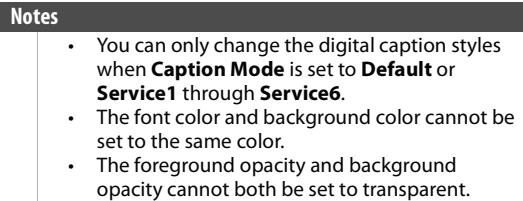


- 7 Press **▲** or **▼** to highlight **Digital Caption Options**, then press **ENTER**. The *Digital Caption* menu opens.



- 8 Press **▲** or **▼** to highlight a style, then press **ENTER**. You can select:

- **Size**—Selects the caption font size.
- **Font Style**—Selects the caption font.
- **Foreground Color**—Selects the font color.
- **Background Color**—Selects the background color for the captions.
- **Foreground Opacity**—Selects the opacity of the caption foreground.
- **Background Opacity**—Selects the opacity of the caption background.
- **Return to Default**—Returns all styles back to the default settings of the broadcasting station.



# Adjusting time settings

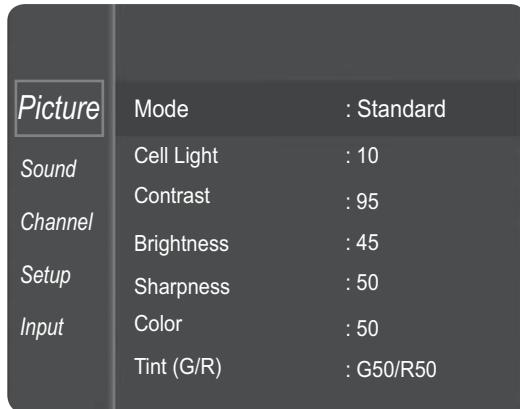
## Note

Unless otherwise noted, all tasks in this section are based on using the remote control.

## Setting the clock

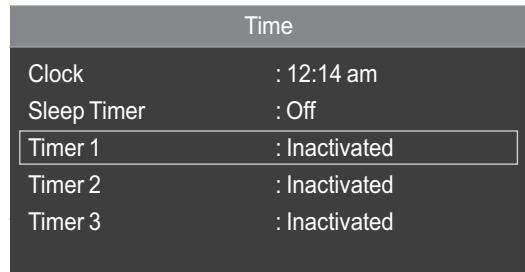
### To set the clock:

- 1 Press **MENU**. The on-screen menu opens.

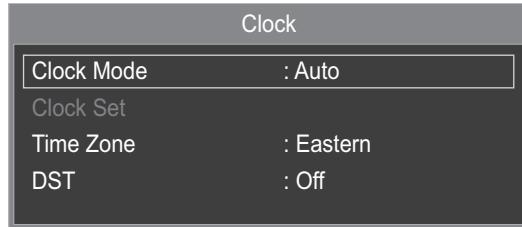


- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.

- 3 Press **▲** or **▼** to highlight **Time**, then press **ENTER**. The **Time** menu opens.

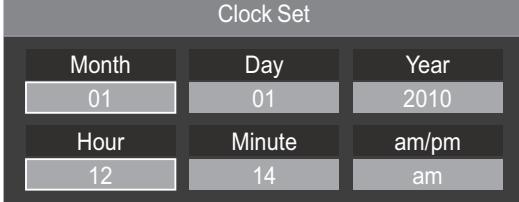


- 4 Press **▲** or **▼** to highlight **Clock**, then press **ENTER**. The **Clock** menu opens with **Clock Mode** highlighted.



- 5 Press **ENTER**, press **▲** or **▼** to highlight **Manual**, then press **ENTER**. You can only set the time if **Clock Mode** is set to **Manual**.

- 6 Press **▲** or **▼** to highlight **Clock Set**, then press **ENTER**.

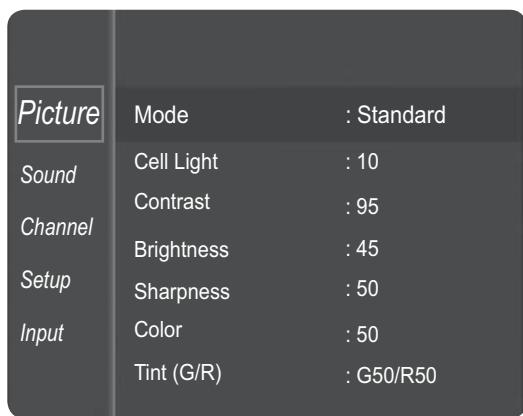


- 7 Press **▲** or **▼** to change an item. Press **◀** or **▶** to move from item to item.

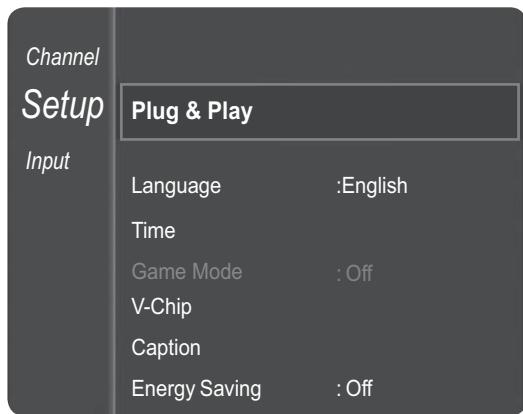
- 8 After you set the clock, press **RETURN** to return to the previous menu or **EXIT** to close the menu.

## Setting the time zone

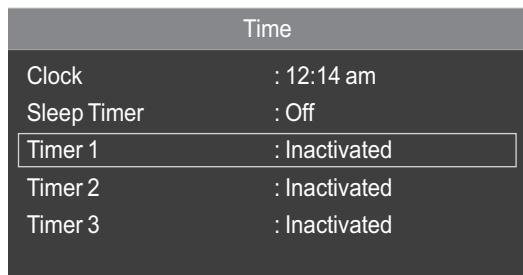
1 Press **MENU**. The on-screen menu opens.



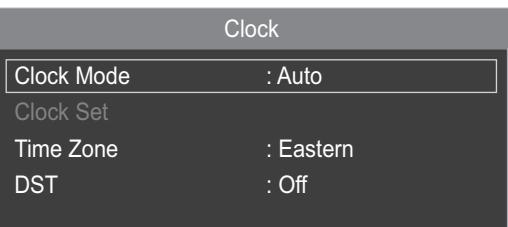
2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.



3 Press **▲** or **▼** to highlight **Time**, then press **ENTER**. The *Time* menu opens.



4 Press **▲** or **▼** to highlight **Clock**, then press **ENTER**. The *Clock* menu opens with **Clock Mode** highlighted.



5 If **Clock Mode** is set to **Manual**, press **▲** or **▼** to highlight **Clock Mode**, press **ENTER**, press **▲** or **▼** to highlight **Auto**, then press **ENTER**. You can only set the time zone if **Clock Mode** is set to **Auto**.

6 Press **▲** or **▼** to highlight **Time Zone**, then press **ENTER**.

7 Press **▲** or **▼** to highlight a time zone, then press **ENTER**.

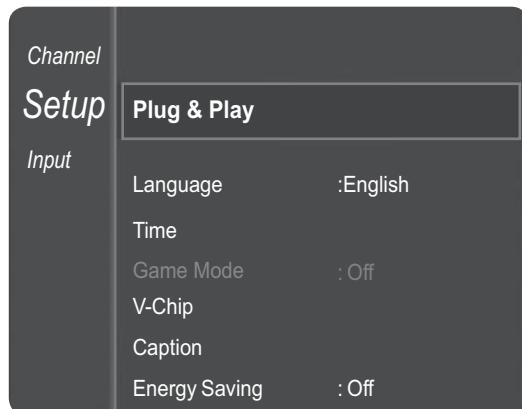
## Turning Daylight Saving Time on or off

### To turn Daylight Saving Time on or off:

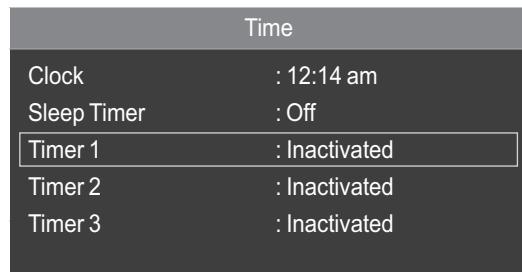
1 Press **MENU**. The on-screen menu opens.



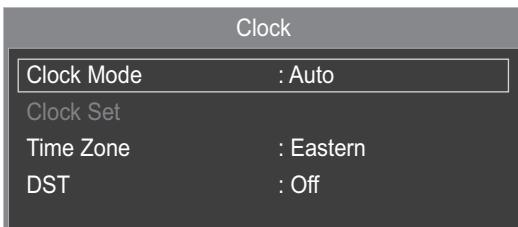
2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.



3 Press **▲** or **▼** to highlight **Time**, then press **ENTER**. The *Time* menu opens.



4 Press **▲** or **▼** to highlight **Clock**, then press **ENTER**. The **Clock** menu opens with **Clock Mode** highlighted.



5 If **Clock Mode** is set to **Manual**, press **▲** or **▼** to highlight **Clock Mode**, press **ENTER**, press **▲** or **▼** to highlight **Auto**, then press **ENTER**. You can only change the **Daylight Saving Time** mode if **Clock Mode** is set to **Auto**.

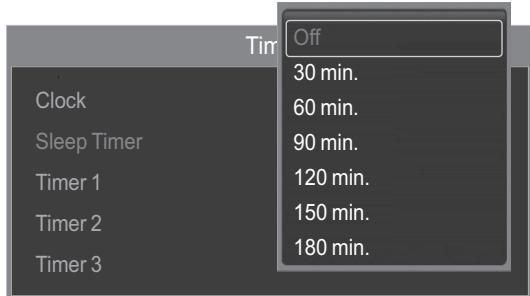
6 Press **▲** or **▼** to highlight **DTS**, then press **ENTER**.

7 Press **▲** or **▼** to highlight **On** or **Off**, then press **ENTER**.

## Setting the sleep timer

### To set the sleep timer:

- Press **SLEEP** one or more times to select the amount of time you want your TV to wait before it automatically turns off. You can select **30 min.**, **60 min.**, **90 min.**, **120 min.**, **150 min.**, or **180 min.**
- To turn off the sleep timer, press **SLEEP** one or more times to select **Off**.

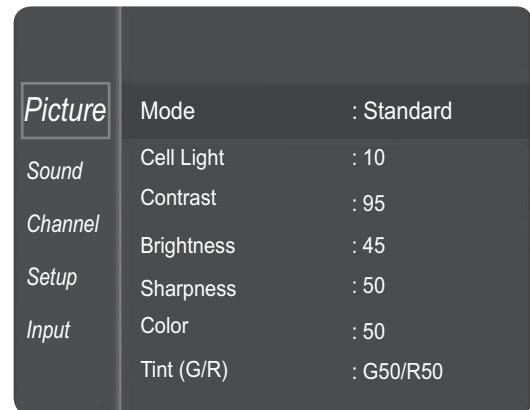


## Setting a wake-up timer

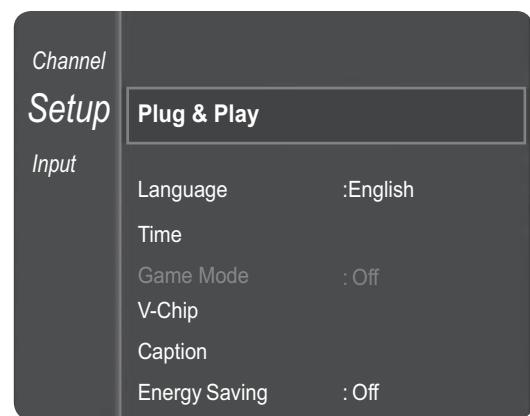
You can set a timer that turns your TV on and off at specific times. You can set as many as three timers.

### To set a wake-up timer:

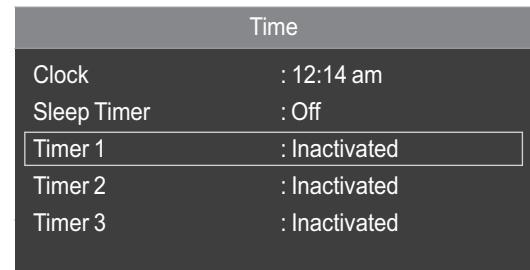
1 Press **MENU**. The on-screen menu opens.



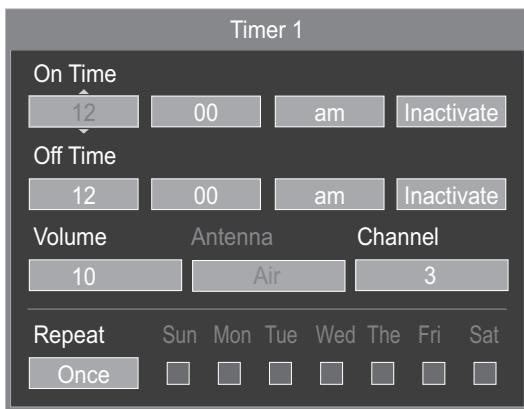
2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.



3 Press **▲** or **▼** to highlight **Time**, then press **ENTER**. The **Time** menu opens.



4 Press **▲** or **▼** to highlight **Timer 1**, **Timer 2**, or **Timer 3**, then press **ENTER** to access the *Timer* screen. The cursor is on the first time field under **On Time**.



5 Press **▲** or **▼** to change an item. Press **◀** or **▶** to move from item to item. You need to set:

- **On Time**—Sets the time your TV turns on.
- **Off Time**—Sets the time your TV turns off.
- **Inactive/Active**—Turns the timer on or off.
- **Volume**—Sets the volume level.
- **Antenna**—Selects the TV signal source. You can select **Air** (antenna) or **Cable** (cable TV).
- **Channel**—Selects the channel you want the TV tuned to when it turns on.
- **Repeat**—Sets the repeat mode for the timer. You can set the timer to activate once or on one or more days of the week. After you select a day of the week, press **ENTER**. A check mark appears in the box below the day.

6 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

**Note**

If the timer turns on your TV and no controls or buttons are used for three hours, your TV automatically turns off to prevent over-heating.

## Adjusting menu settings

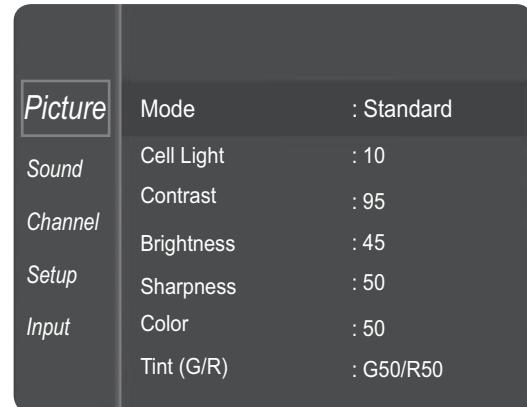
**Note**

Unless otherwise noted, all tasks in this section are based on using the remote control.

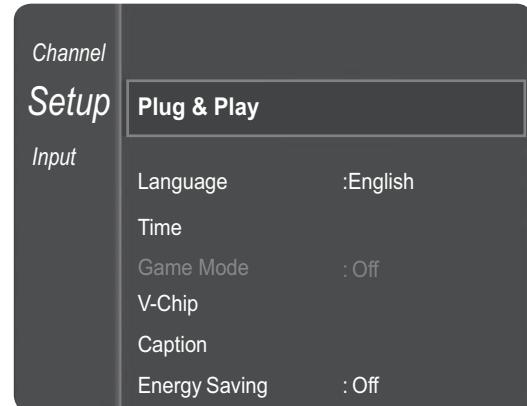
### Selecting the menu language

**To select the menu language:**

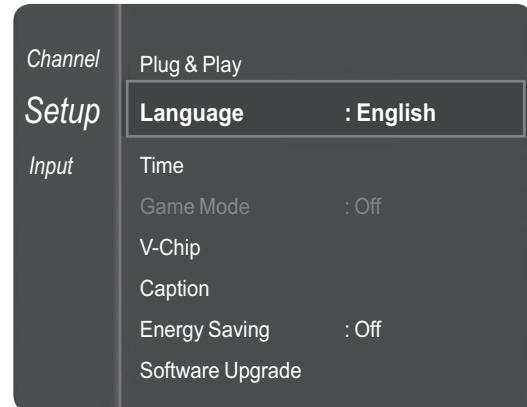
1 Press  **MENU**. The on-screen menu opens.



2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu.



3 Press **▲** or **▼** to highlight **Language**, then press **ENTER** to access the option.

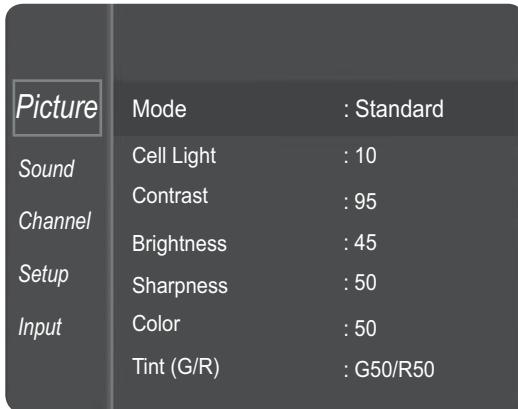


- 4 Press **▲** or **▼** to highlight a language, then press **ENTER** to confirm. You can select **English**, **French**, or **Spanish**.
- 5 Press **RETURN** to return to the previous menu or **EXIT** to close the menu.

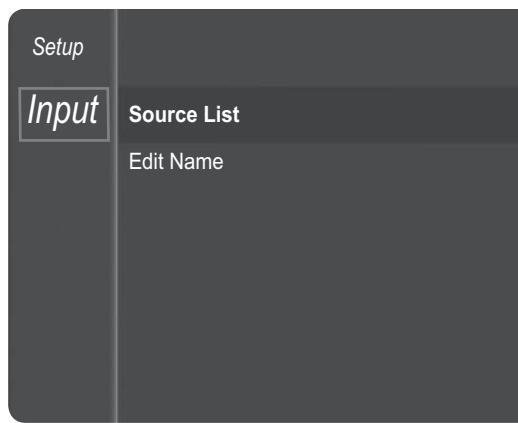
## Labeling an input source

### To change input labels:

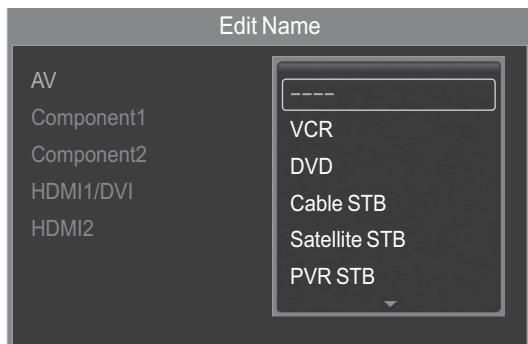
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **▲** or **▼** to highlight **Input**, then press **ENTER** to access the *Input* menu.



- 3 Press **▲** or **▼** to highlight **Edit Name**, then press **ENTER**.
- 4 Press **ENTER** to access the list of options. The *Edit Name* screen opens.



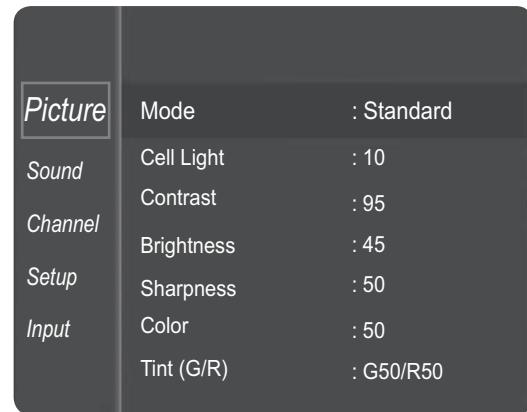
- 5 Press **▲** or **▼** to select the label you want, then press **ENTER**.

## Resetting the Plug & Play option

If you want to re-run the initial setup wizard to set up your TV again, you can reset the **Plug & Play** option.

### To reset the Plug & Play option:

- 1 Press **MENU**. The on-screen menu opens.



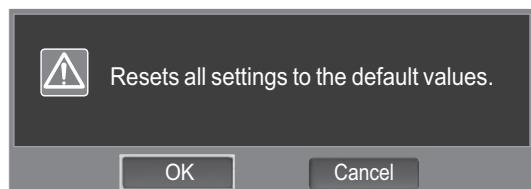
- 2 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the *Setup* menu. **Plug & Play** is highlighted.
- 3 Press **ENTER** to reset the **Plug & Play** option.

## Resetting settings to the defaults

Resetting settings to the defaults resets all settings including the parental password and the rating level.

### To reset settings to the defaults:

- 1 Press and hold **EXIT** for about 10 seconds until the *Resets all settings to the default values* screen opens.



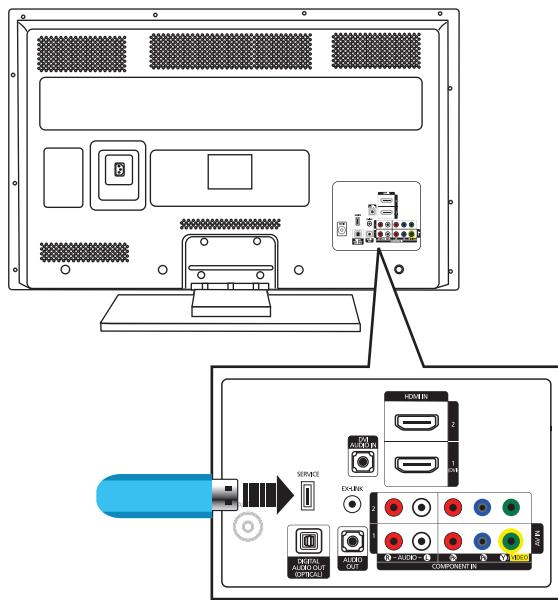
- 2 Select **OK** to reset the settings.

# Upgrading TV software

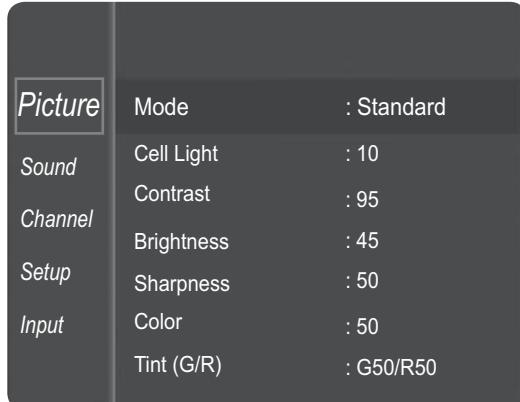
If upgrades become available for your TV, you can use a USB flash drive to upgrade your TV's software.

## To upgrade TV software:

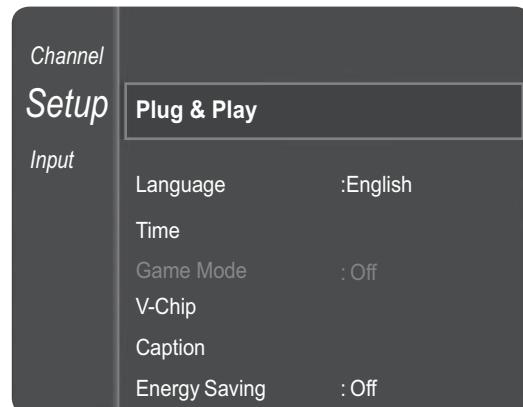
- 1 Download the software upgrade and copy it to a USB flash drive.
- 2 Write down all the settings you have changed in the on-screen menus. During the upgrade, all settings are reset to the factory defaults.
- 3 Plug the USB flash drive into the **SERVICE** jack on the back of your TV.



- 4 Press **MENU**. The on-screen menu opens.

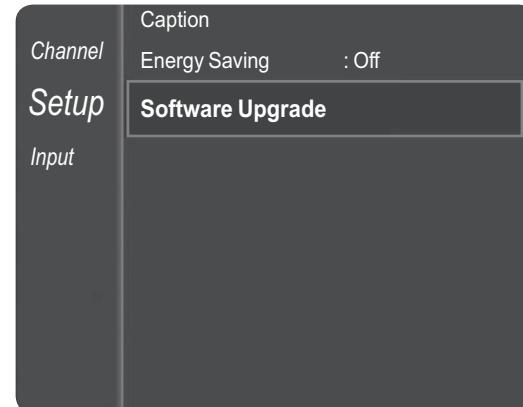


- 5 Press **▲** or **▼** to highlight **Setup**, then press **ENTER** to access the **Setup** menu.

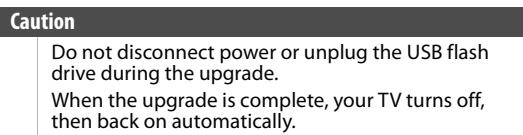
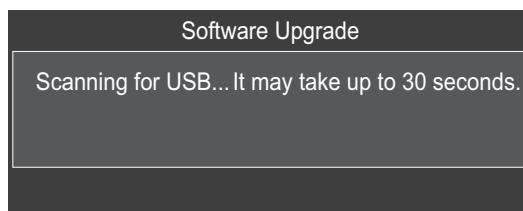


- 6 Press **▲** or **▼** to highlight **Software Upgrade**, then press **ENTER**. You may have to scroll down to see this option.

The software upgrade begins.



During the software upgrade, the following screen appears.



# Maintaining

- Do not use your TV in areas that are too hot or too cold, because the cabinet may warp or the screen may malfunction. Your TV works best in temperatures that are comfortable to you.
- Do not place your TV in direct sunlight or near a heat source.

## Cleaning the TV cabinet

Clean the cabinet with a soft, lint-free cloth. **Do not** use the cleaning cloth that came with your TV to clean the cabinet. If the cabinet is especially dirty, moisten a soft, lint-free cloth in a weak detergent solution, squeeze the excess moisture from the cloth, then wipe the screen or cabinet with the cloth. Use a clean cloth to dry the screen or cabinet.

## Cleaning the TV screen

Clean the screen with the cleaning cloth or a soft, lint-free cloth. **Do not** use the cleaning cloth to clean other parts of your TV.

# Troubleshooting

### Warning

Do not try to repair your TV yourself. Refer all service to a qualified service technician.

Problem	Solution
Poor picture quality.	<ul style="list-style-type: none"> <li>Try another channel.</li> <li>Adjust the antenna.</li> <li>Check all wire connections.</li> </ul>
Poor sound quality.	<ul style="list-style-type: none"> <li>Try another channel.</li> <li>Adjust the antenna.</li> <li>Try another channel.</li> <li>Press <b>INPUT</b> to make sure the correct video input source is selected. For more information, see "Selecting the video input source" on page 21.</li> <li>Make sure that the power cord is connected to your TV and a surge protector or working power outlet. If you use a surge protector, make sure that it is turned on.</li> <li>Check the antenna connections.</li> <li>Press <b>MUTE</b> to make sure that the sound is not muted.</li> </ul>
No picture or sound.	<ul style="list-style-type: none"> <li>First, check the volume of devices connected to your TV (such as the cable or satellite TV box, DVD player, or VCR). Then, adjust the TV volume accordingly.</li> </ul>
No sound or sound is too low at maximum volume.	
Picture rolls vertically.	<ul style="list-style-type: none"> <li>Check all connections.</li> <li>Turn off the surge protector or unplug the power cord for 30 seconds, then turn on the surge protector or plug the power cord back in and turn on your TV.</li> </ul>
Your TV operates erratically.	
Your TV does not turn on.	<ul style="list-style-type: none"> <li>Test the power outlet to make sure that it is working.</li> </ul>

Problem	Solution
Remote control does not work.	<ul style="list-style-type: none"> <li>Make sure that there are no obstacles between the remote control and the remote control sensor on the front of your TV.</li> <li>Make sure that batteries are inserted into the remote.</li> <li>Make sure that the + and – symbols on the batteries match the + and – symbols inside the battery compartment.</li> <li>Clean the upper edge of the remote control (transmission window).</li> <li>Check the battery terminals.</li> <li>Replace the remote control batteries.</li> </ul>
Digital broadcasting screen problem.	<ul style="list-style-type: none"> <li>Check the digital signal strength.</li> <li>Adjust the antenna.</li> </ul>
The image is too light or too dark.	<ul style="list-style-type: none"> <li>Adjust the brightness and contrast.</li> <li>Adjust the fine tuning.</li> </ul>
The image is too large or too small.	<ul style="list-style-type: none"> <li>Adjust the <b>Picture Size</b> settings. For more information, see "Adjusting the TV picture" on page 24.</li> <li>Press <b>ZOOM</b> to select a different aspect ratio.</li> </ul>
The visual qualities of digital channels vary.	<ul style="list-style-type: none"> <li>The visual qualities of digital channels may vary depending on the original production method (analog or digital). If the original production method is digital, the visual quality is high. If the original production method is analog, the program has been converted to digital and visual quality may be lower.</li> <li>The visual quality is of an SD (standard definition) grade.</li> </ul>
Screen is black and power indicator light blinks steadily.	<p>If your TV is connected to a computer:</p> <ul style="list-style-type: none"> <li>Your TV may be in power-saving mode. Move the mouse or press a keyboard key.</li> <li>Check the cable connections.</li> </ul> <p>If your TV is connected to an external device:</p> <ul style="list-style-type: none"> <li>Your TV may be in power-saving mode. Press <b>INPUT</b>.</li> <li>Turn your TV off, then on again.</li> <li>Check the cable connections.</li> </ul>
The TV caption shows HD, but the visual quality is poor.	<ul style="list-style-type: none"> <li>The HD (high definition) caption that appears when switching channels or when pressing <b>DISPLAY</b> on the remote control means the selected channel is a digital channel. If the broadcasting station converts an analog signal into digital and transmits the signal, the visual quality may not be perfect.</li> <li>If Screen Fit is selected in some external devices, a distorted picture may appear in a corner of the screen. This symptom is caused by external devices, not the TV.</li> </ul>
A distorted picture appears in the corner of the screen.	
A strange sound is heard.	<ul style="list-style-type: none"> <li>This is caused by minor systems operation and is not a defect.</li> </ul>
Pixels are visible on the screen.	<ul style="list-style-type: none"> <li>There may be few bright or dark pixels on the screen. These pixels have no impact on the performance of the product.</li> </ul>
The <i>Resets all settings to the default values</i> message appears.	<ul style="list-style-type: none"> <li>This appears when you press and hold <b>EXIT</b> for a several seconds. The product settings are reset to the factory defaults.</li> </ul>

# Specifications

Specifications are subject to change without notice.

## Warranty

NS-42P650A11	NS-50P650A11
Parts: 2 years	Parts: 2 years
Labor: 2 years	Labor: 2 years

## Dimensions and weight

	Without stand 40.54 x 24.81 x 2.73 inches (1031 x 631 x 69.5 mm) 39.6 lbs (18 kg)	With stand 40.54 x 27.48 x 11.75 inches (1031 x 699 x 299.5 mm) 43 lbs (19.5 kg)
NS-42P650A11		
NS-50P650A11	Without stand 47.28 x 28.33 x 2.73 inches (1202.5 x 790 x 31.06 mm) 50.6 lbs (23 kg)	With stand 47.28 x 31.06 x 11.7 inches (1202 x 790 x 299.5 mm) 54 lbs (24.5 kg)

## Screen

Screen size measured diagonally	NS-42P650A11: 42.3 in. (107.44 cm) NS-50P650A11: 49.9 in. (126.75 cm)
Display type	PDP (Plasma Display Panel)
Panel	600Hz subfield
Display resolution	720p
Panel resolution	NS-42P650A11: 1024 x 768 NS-50P650A11: 1360 x 768
Aspect ratio	16:9
Contrast ratio (typical)–panel	30,000 : 1
Dynamic contrast ratio–(typical) list value	Mega DCR
Brightness (center typical) cd/m <sup>2</sup> –panel	500
Comb filter	3d y/c digital
Response time	0.001 ms
Horizontal viewing angle (typical)	Over 160
Vertical viewing angle (typical)	Over 160

## Display resolutions

HDMI	1080i, 720p, 480p, 480i
Suggested resolutions	
Component video	1080i, 720p, 480p, 480i
Suggested resolutions	

## Tuner

Analog	NTSC
Digital	ATSC, 8-VSB, Clear-QAM

## Inputs

HDMI	2 (back) E-EDID-compliant HDCP-compliant
Component video	2 (back)
Composite video	1 (back) Share with COMPONENT IN 1-Y
Shared audio (component and composite)	Yes
S-Video	No
PC/VGA	No
3.5mm DVI audio input	1 (back)
DVI	1- HDMI port 1 (back)
USB	1 (back) Firmware upgrade only

## Outputs

Video	No
Analog audio	1 (back)
Digital audio (optical)	1 (back)
WiFi	No
Ethernet	No

## Audio

Number of speakers	2
Watts per speaker	10W
Simulated Surround Sound	Yes - SRS TruSurround HD
Sound Leveler	Yes

## Power

Power consumption	On: 200 W Standby: <1 W
Power input	120V/60Hz

## Miscellaneous

OSD languages	English, French, Spanish
INlink	No
Game Mode	Yes
ENERGY STAR qualified	No
Internet connectable	No
TV stand and base screws	NS-50P450A11, M4 x L12 (10 pcs) NS-42P650A11, M4 x L16 (4 pcs)
V-Chip (version 2.0)	Yes
Sleep timer	Yes
Channel labeling	No
VESA mount (mm) (horizontal x vertical)	400 x 400

## Note

The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.

## Computer display modes

### Note

When using an HDMI/DVI cable connection, you must use the HDMI IN 1(DVI) jack.

### HDMI/DVI input (NS-42P650A11-10A/NS-50P650A11)

Mode	Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel clock frequency (MHz)	Sync polarity (H/V)	NS-42P650A11	NS-50P650A11
IBM	640 × 350	31.469	70.086	25.175	+ / -	Y	Y
	720 × 400	31.469	70.087	28.322	- / +	Y	Y
MAC	640 × 480	35.000	66.667	30.240	- / -	Y	Y
	832 × 624	49.726	74.551	57.284	- / -	Y	Y
VESA DMT	640 × 480	31.469	59.940	25.175	- / -	Y	Y
	640 × 480	37.861	72.809	31.500	- / -	Y	Y
	640 × 480	37.500	75.000	31.500	- / -	Y	Y
	800 × 600	37.879	60.317	40.000	+ / +	Y	Y
	800 × 600	48.077	72.188	50.000	+ / +	Y	Y
	800 × 600	46.875	75.000	49.500	+ / +	Y	Y
	1024 × 768	48.363	60.004	65.000	- / -	Y	Y
	1024 × 768	56.476	70.069	75.000	- / -	Y	Y
	1024 × 768	60.023	75.029	78.750	+ / +	Y	Y
	1360 × 768	47.712	60.015	85.500	+ / +	N	Y
VESA CVT	720 × 576	35.910	59.950	32.750	- / +	Y	Y
	1280 × 720	44.772	59.855	74.500	- / +	N	Y
	1280 × 720	56.456	74.777	95.750	- / +	N	Y
VESA GTF	1280 × 720	52.500	70.000	89.040	- / +	N	Y

# Programming universal remote controls

## Programming a different universal remote control

You can operate your Insignia TV with a new or existing universal remote control.

### To program a different universal remote control:

- 1 See the table below for common codes. If you have problems programming your remote or need a different remote control code, visit [www.insigniaproducts.com/remotecodes](http://www.insigniaproducts.com/remotecodes) for the latest remote control code information.
- 2 Follow your universal remote control's instructions to enter the TV code you found in Step 1.

#### Tips

- If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control's instructions for details.
- If your universal remote control has a "Learn" feature, you can manually program it using the Insignia TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

For additional help and information:

- Visit: <http://www.insigniaproducts.com/remotecodes>
- Call technical support for the universal remote control or cable/satellite company of the remote/set-top box you are trying to program.
- Call the Insignia Customer Care Center 1-877-467-4289.

## Common universal remote control codes

The following is a list of the most common remote control codes. Codes for other remote controls are available online at: [www.insigniaproducts.com](http://www.insigniaproducts.com) or check with your cable or satellite TV provider for the remote control code.

### Insignia TV codes for universal remote controls (for all Insignia TVs manufactured after Jan. 1, 2007)

#### Universal remote control makes and models

One for All	0054
Phillips	0198, 0490
RCA	135
Sony	068, 069, 078, 096, 100, 164, 168, 229, 026

Set-top box makes and models	
Cablevision	068, 069, 078, 096, 100, 164, 168, 229, 026
Charter	2002, 1204, 1423, 1517, 0171, 1963, 0463, 1463, 0842, 1326, 167, 415, 424, 450, 456, 461, 507, 523, 567, 577, 586
Comcast	10171, 11204, 11326, 11463, 11517, 11641, 11780, 11785, 11892, 11963, 12002
Cox	1326, 1463
DirectTV	10171, 11204, 11326, 11517, 11564, 11641, 11963, 12002
Dish Network	720
Time Warner	400, 450, 461, 456, 10463, 1463, 0463
TiVo	0091
Verizon	0198, 0490

#### Tips

- The brand name is often visible on the front of the universal remote control, and the model number is often visible on the back.
- If your universal remote control isn't listed on the chart, refer to your universal remote control's instructions and try codes for the brands Orion, Emerson, Memorex, Sansui, Sylvania, or Zenith. You may need to try several codes before finding a match.

- 3 Follow your universal remote control's instructions to enter the TV code you found in Step 1.

#### Tips

- If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control's instructions for details.
- If your universal remote control has a "Learn" feature, you can manually program it using the Insignia TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

- 4 If all else fails, you must use a different universal remote control that can operate both your set-top box and your TV. Four such remotes are listed on the chart, but many other compatible models are available in the market.

For more help, call technical support for your universal remote control or set-top box manufacturer, or call the Insignia Customer Care Center at 1-877-467-4289.

# Legal notices

## FCC Class A Notice

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:**

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

**NOTE:**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## FCC Class B Notice

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:**

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

**NOTE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult with your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful.

This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office.

Washington, DC 20402, Stock Number 004-000-00345 -4.

## FCC warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Provided with this monitor is a detachable power supply cord with IEC320 style terminations.

It may be suitable for connection to any UL Listed personal computer with similar configuration.

Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15 P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6-15 P type (tandem blades) plug cap.

This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules. (TV broadcast receivers with picture screens 13 inches or larger in diameter models only)

## DHHS and FDA safety certification

This product is made and tested to meet safety standards of the FCC, requirements and compliance with safety performance of the U.S. Department of Health and Human Services, and also with FDA Radiation Performance Standards 21 CFR Subchapter J.

## ICES-003 Class A Notice - Avis NMB-003, Classe A

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

## RSS 310 statement

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

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The Zlib License zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.5, April 19th, 2010

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